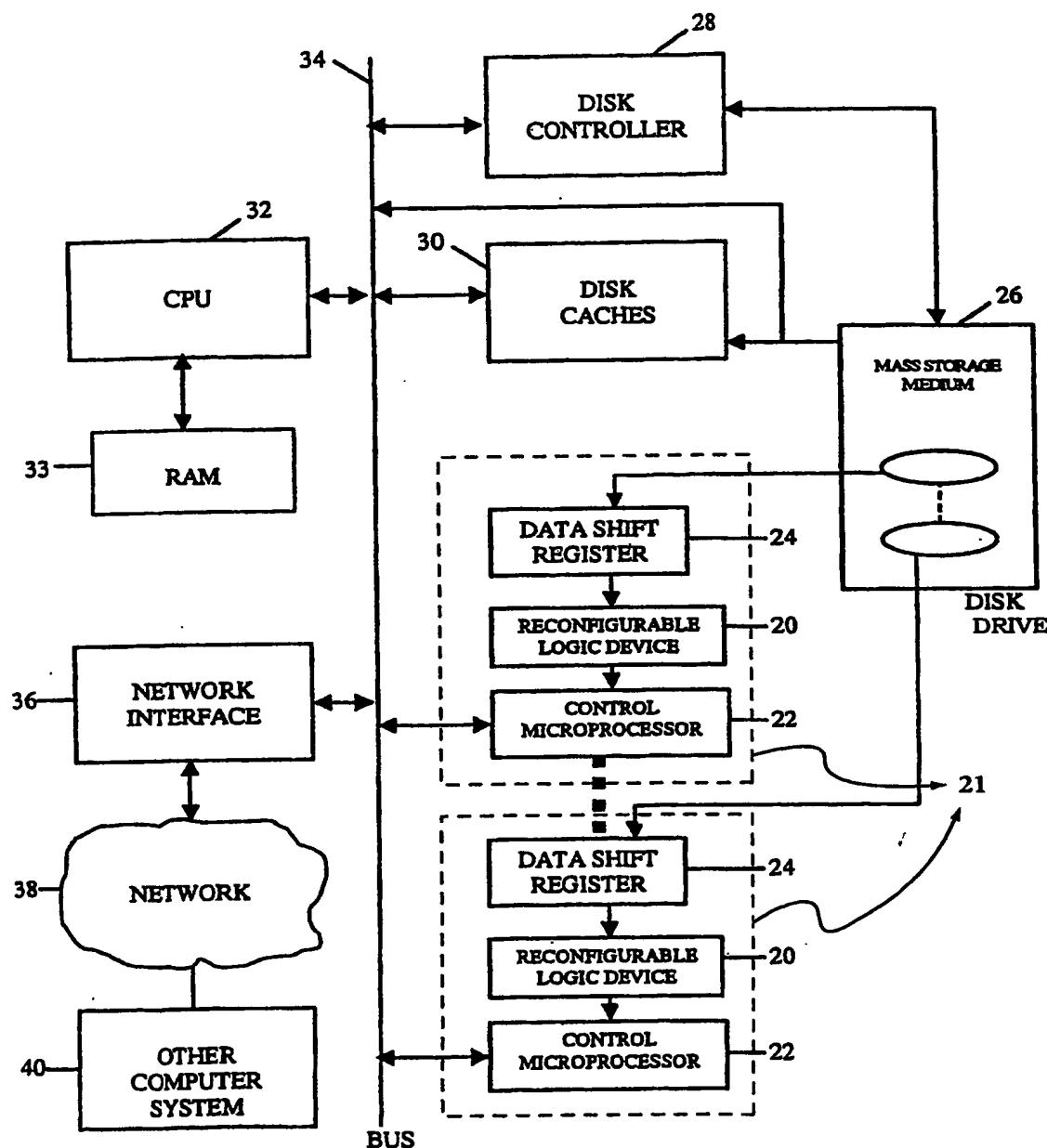


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**Figure 1**

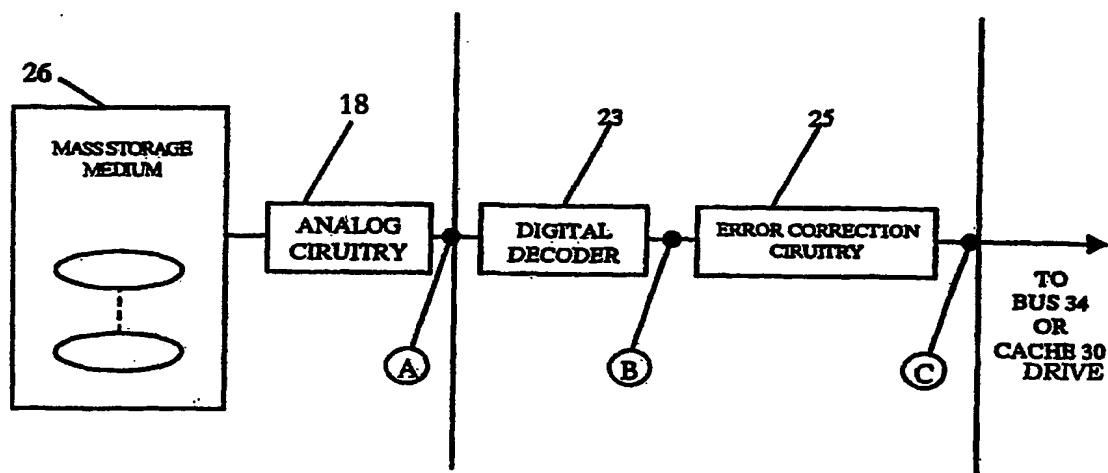


Figure 2

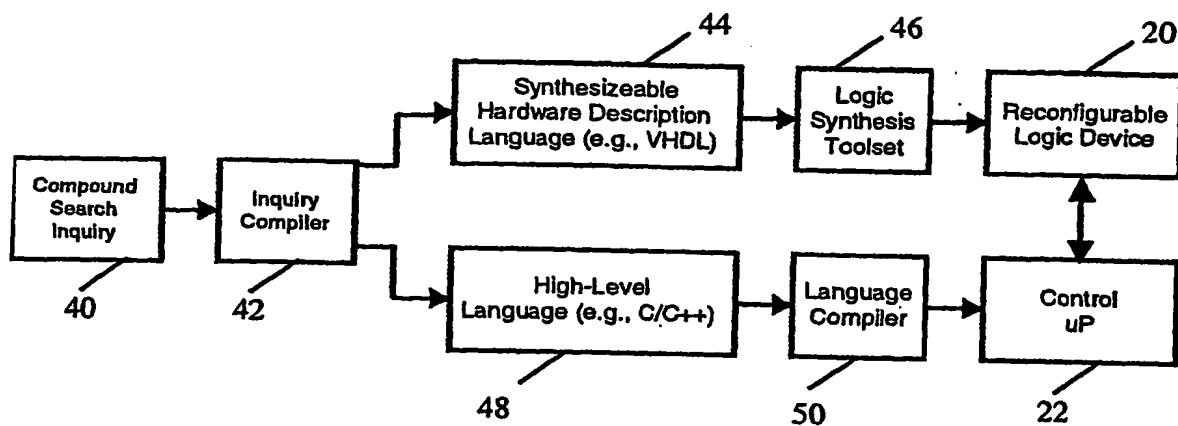


Figure 3

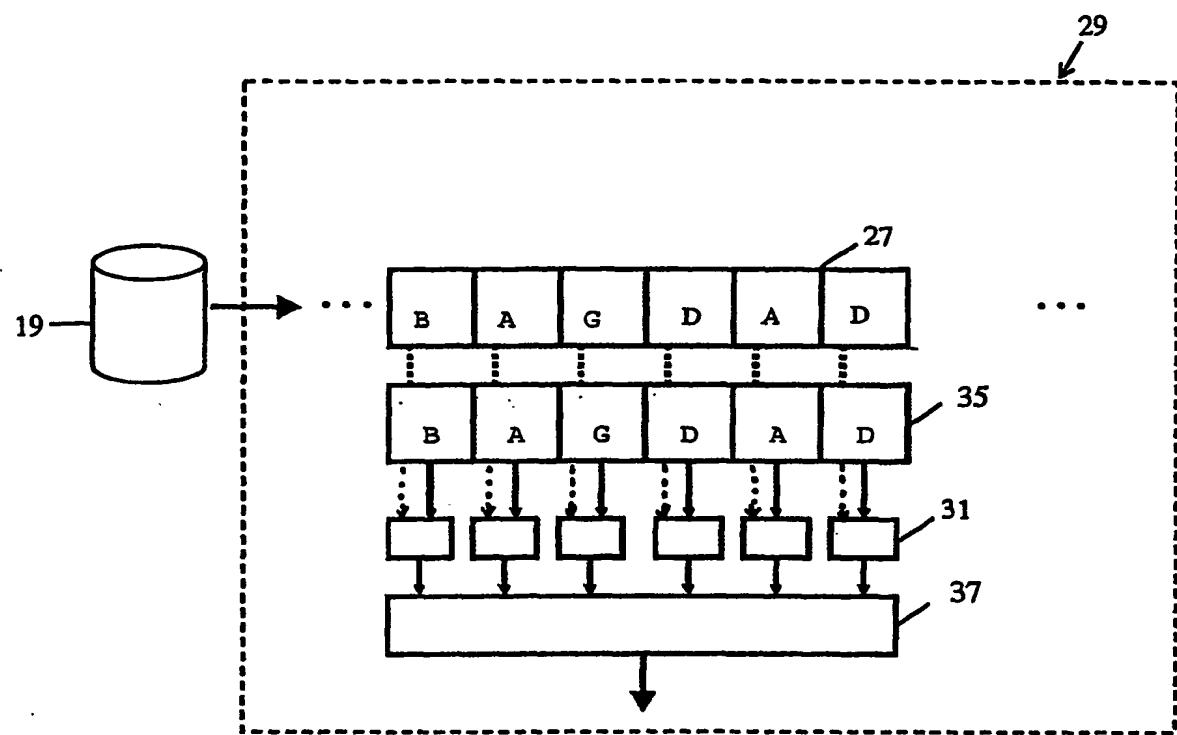


Figure 4

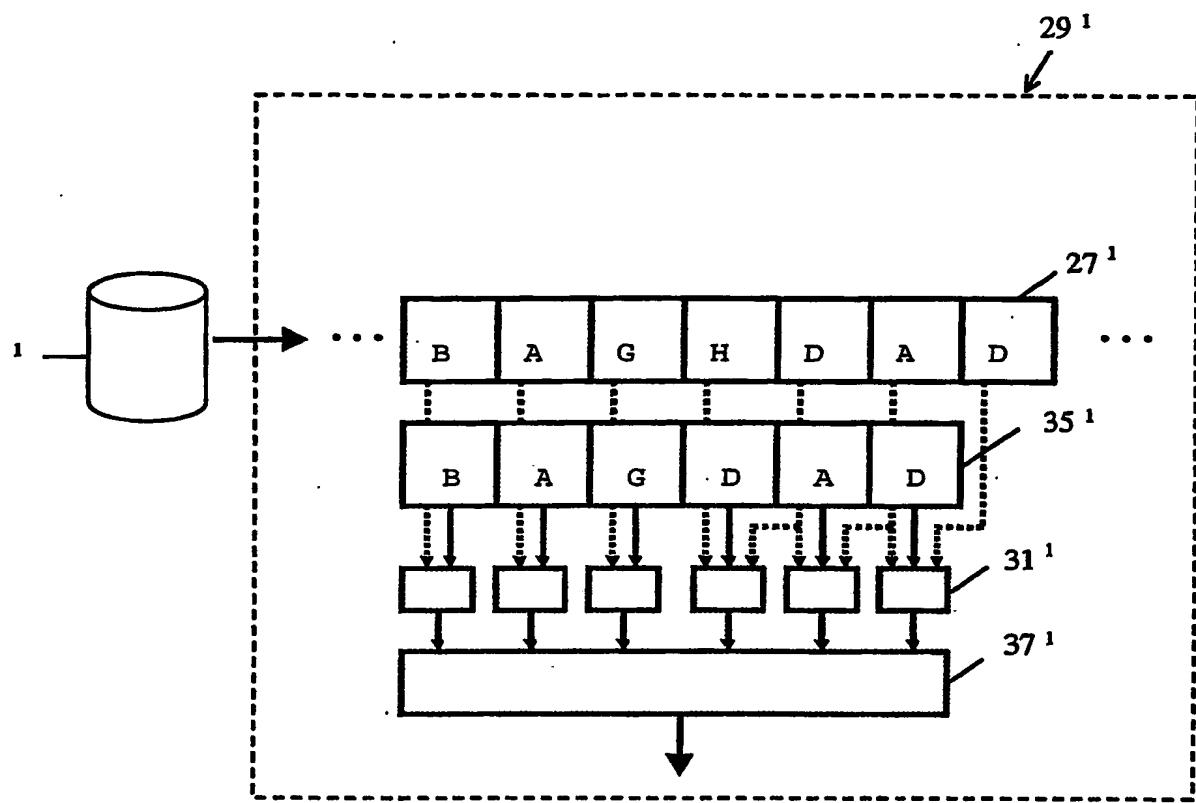


Figure 5

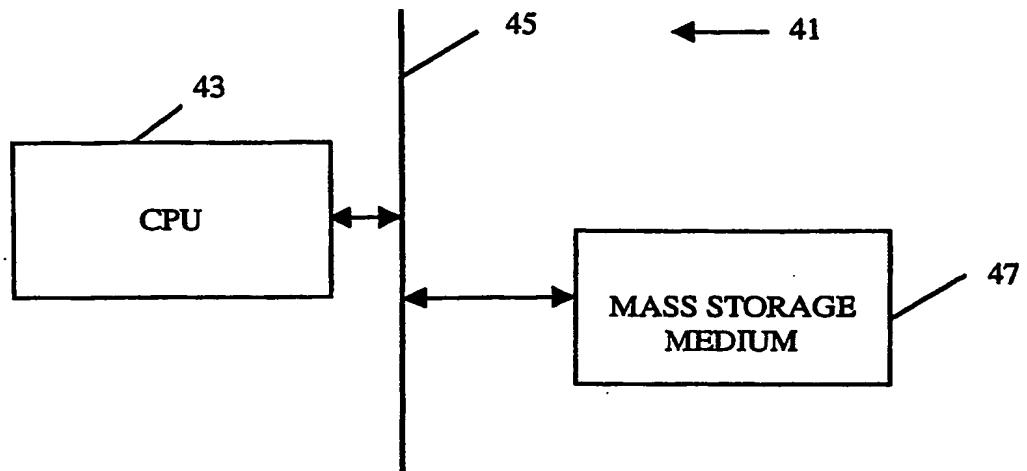


Figure 6

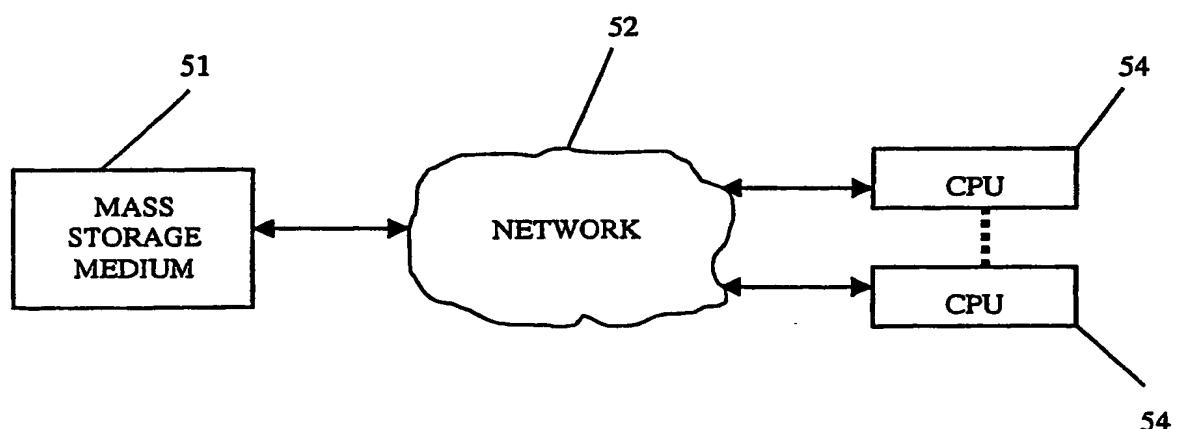


Figure 7

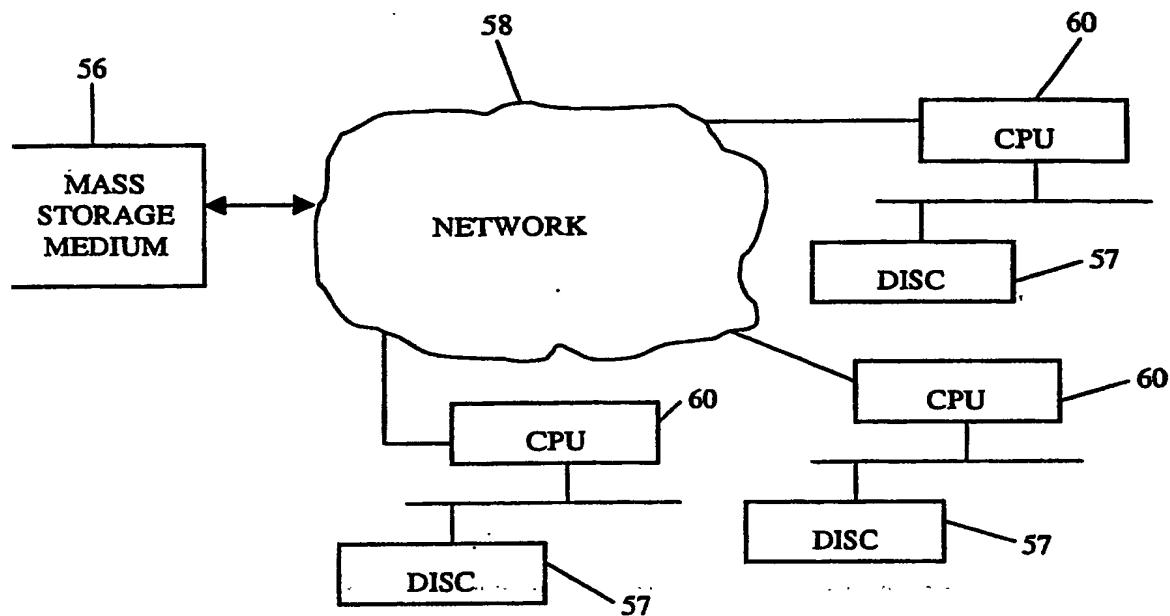


Figure 8

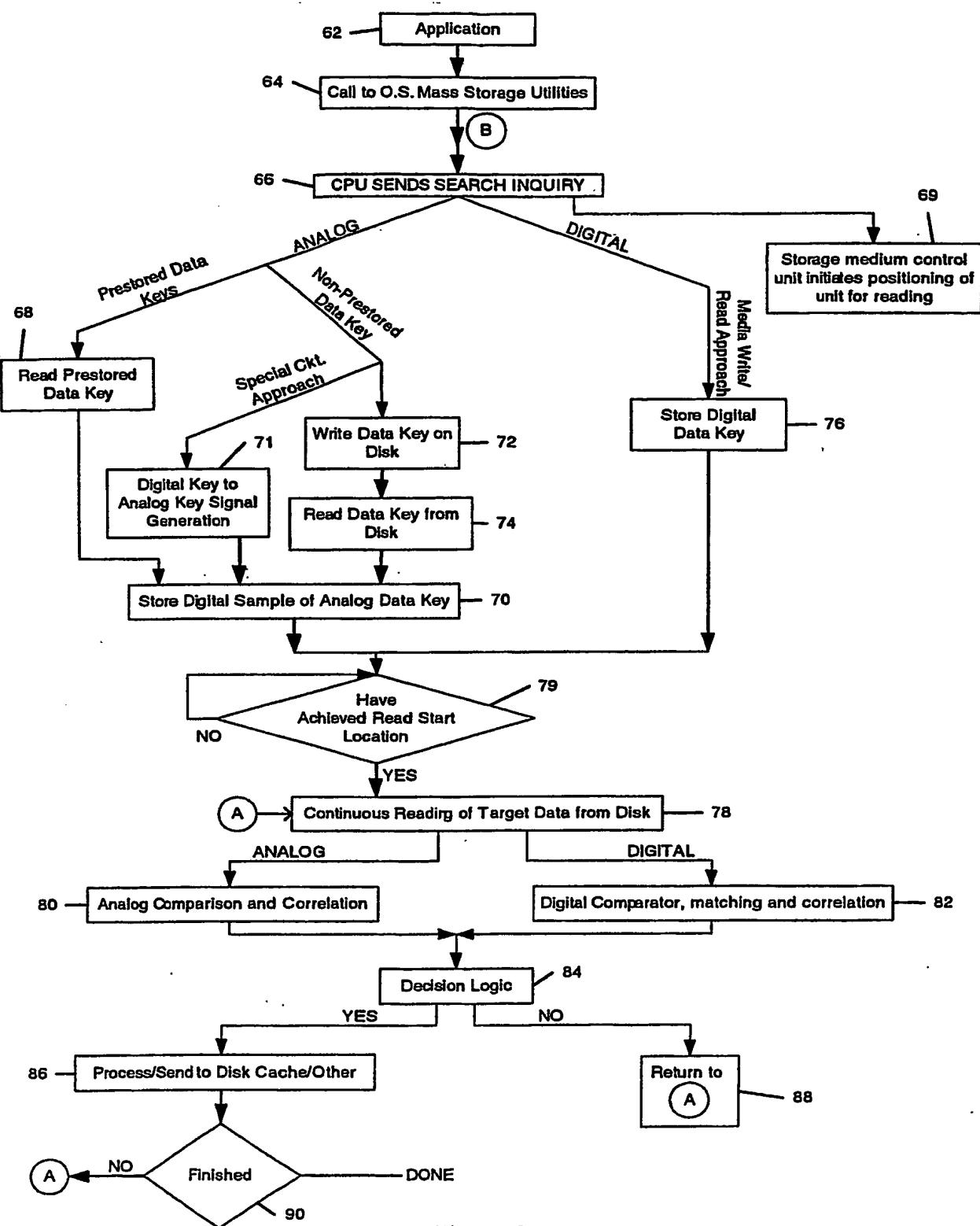


Figure 9

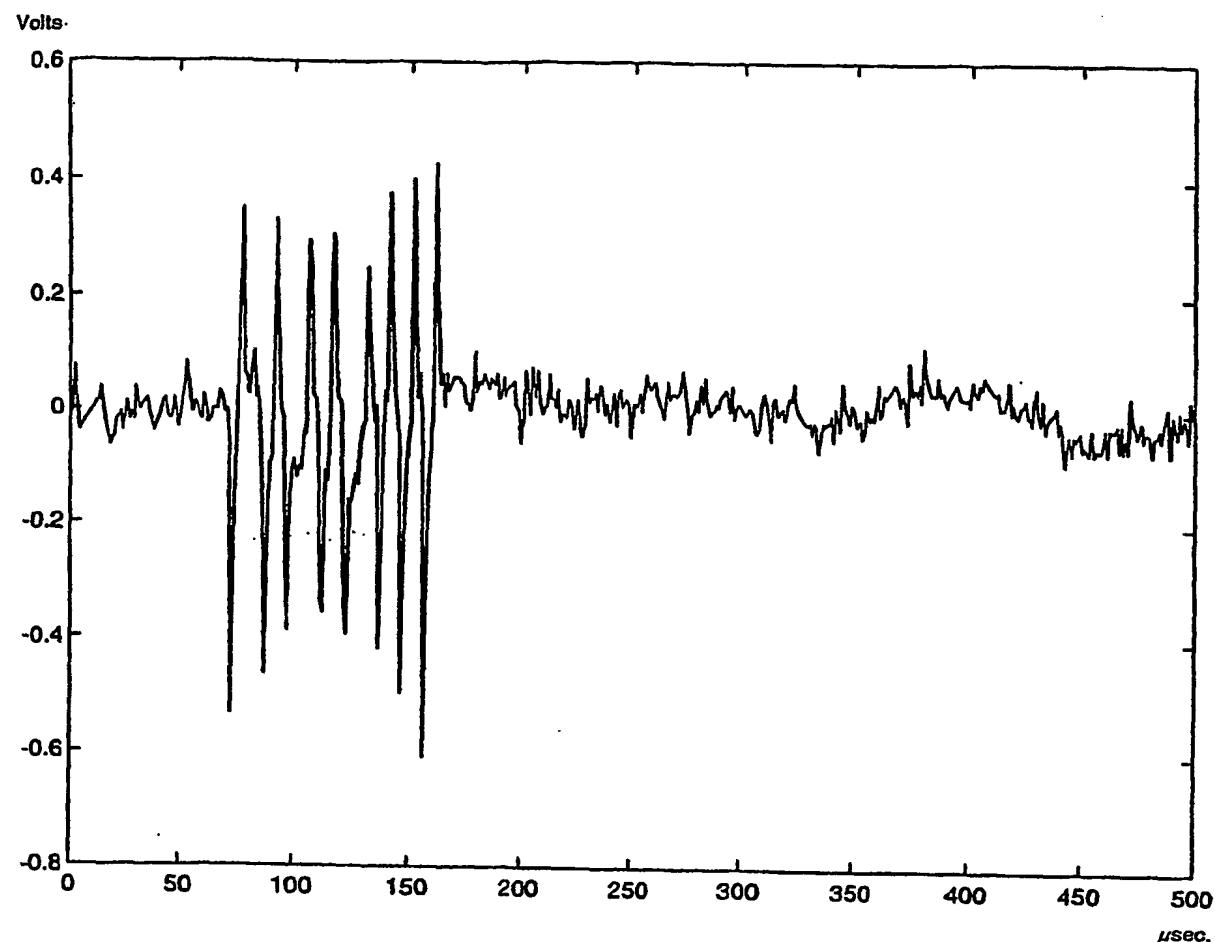


Figure 10

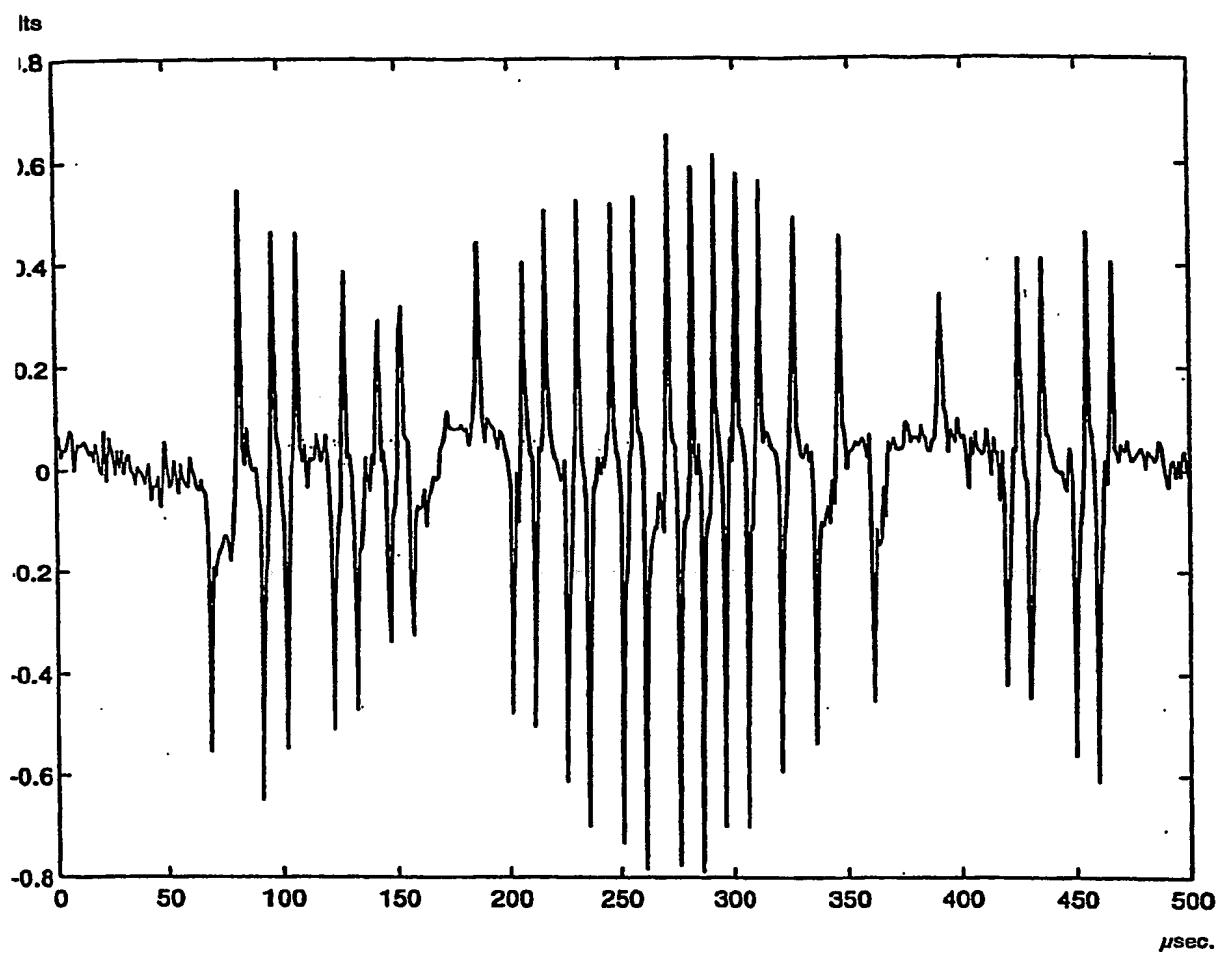


Figure 11

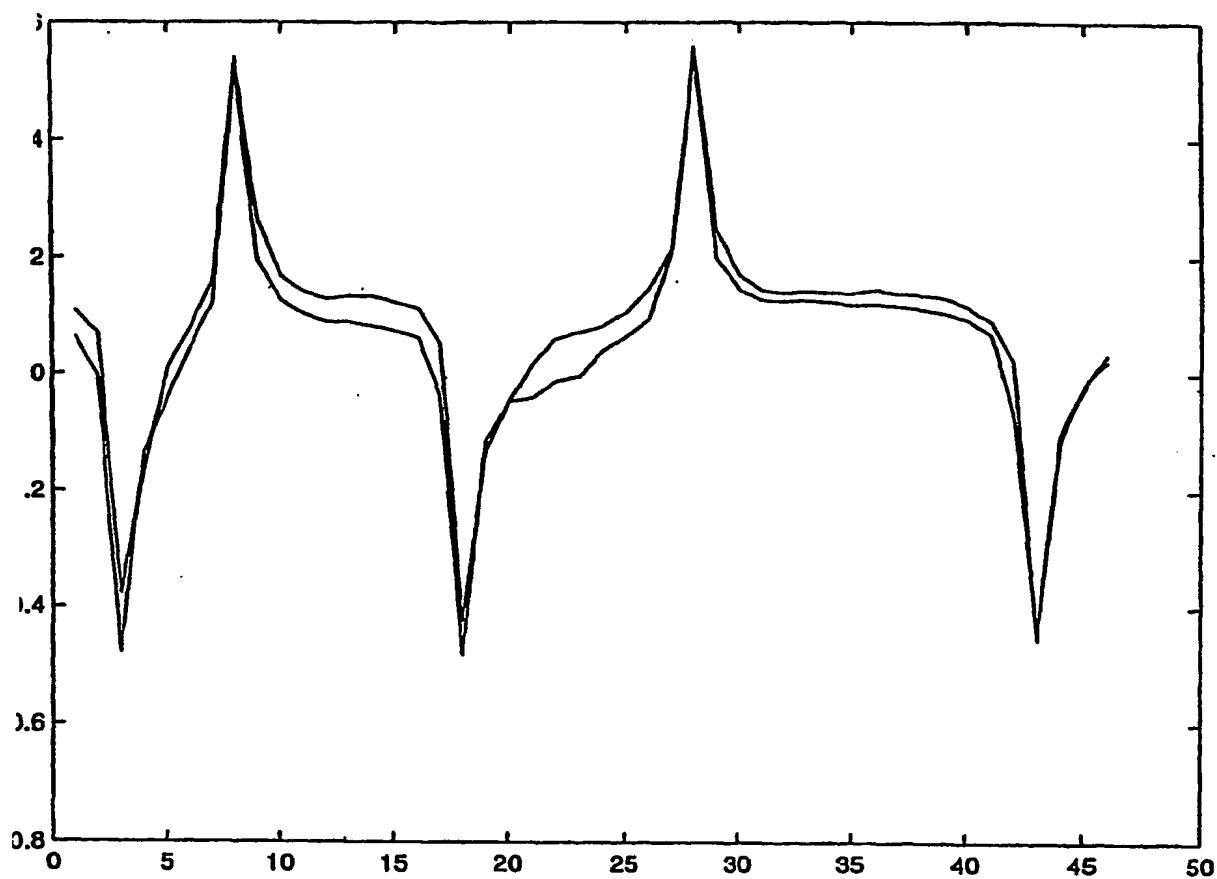


Figure 12

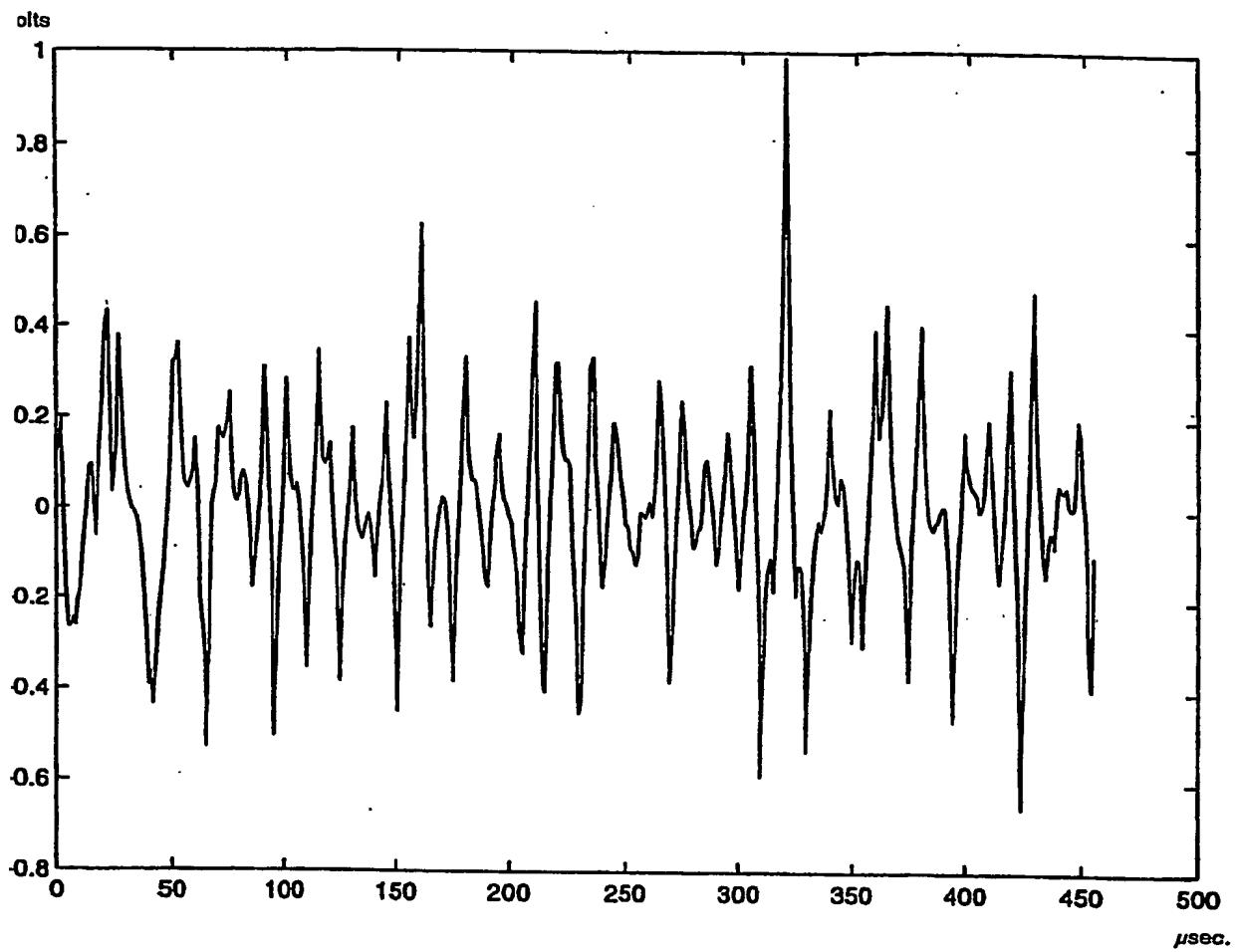


Figure 13

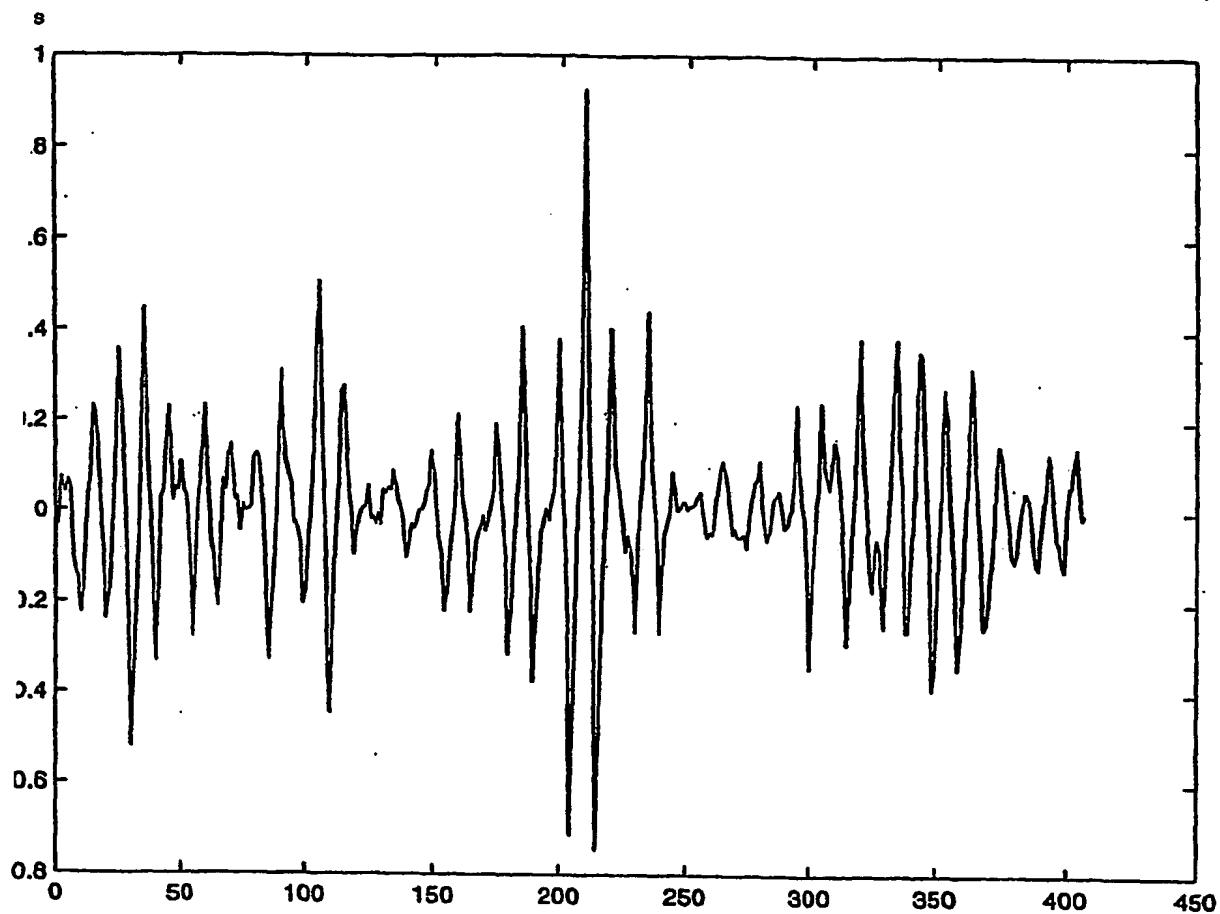
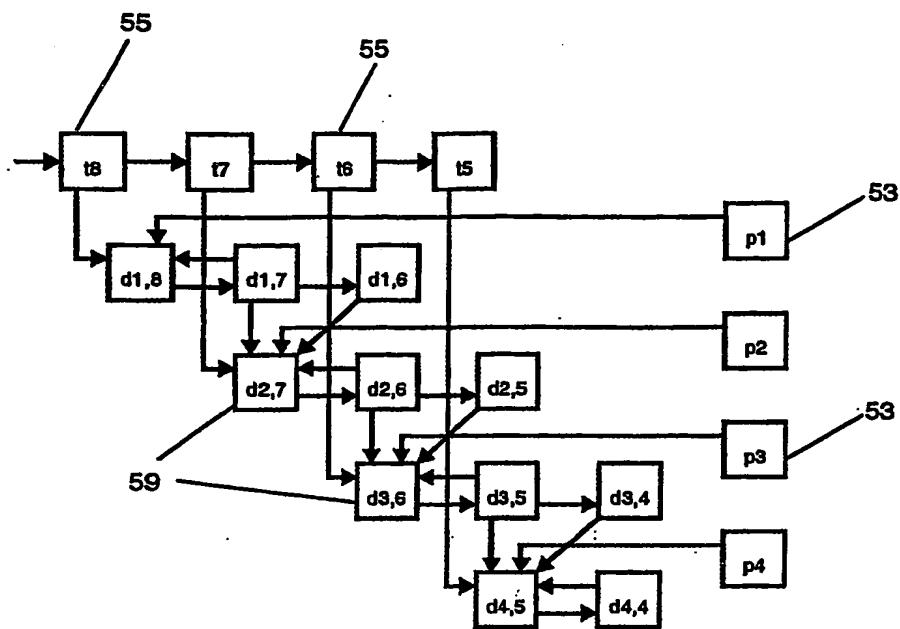


Figure 14

	t1	t2	t3	t4	t5	t6	t7	t8	t9
p1	d1,1	d1,2	d1,3	d1,4	d1,5	d1,6	d1,7	d1,8	d1,9
p2	d2,1	d2,2	d2,3	d2,4	d2,5	d2,6	d2,7	d2,8	d2,9
p3	d3,1	d3,2	d3,3	d3,4	d3,5	d3,6	d3,7	d3,8	d3,9
p4	d4,1	d4,2	d4,3	d4,4	d4,5	d4,6	d4,7	d4,8	d4,9

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Figure 15

**Figure 16**

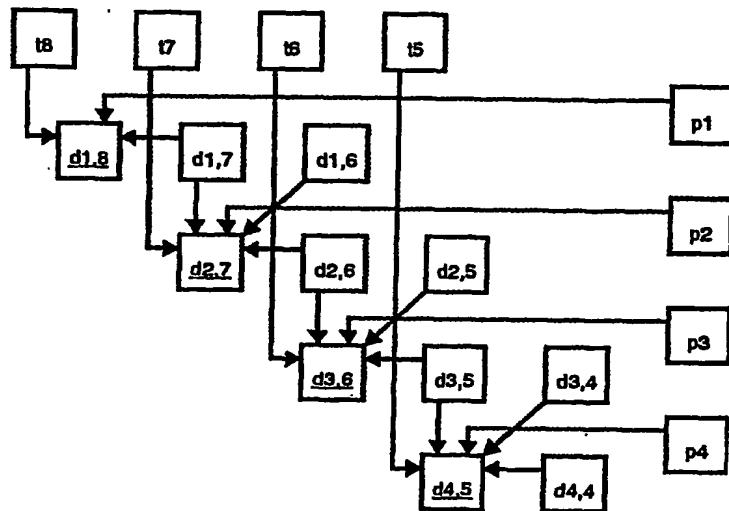
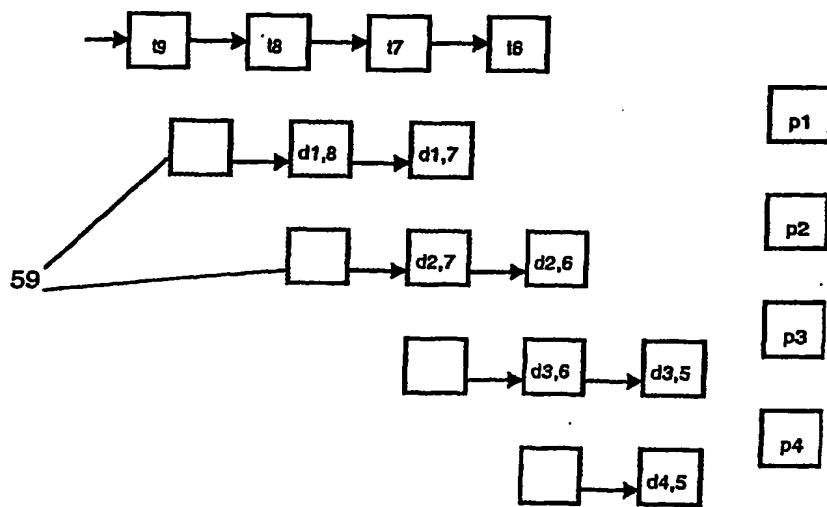


Figure 17



	p	q	r	a	x	a	b	c	s	t	v	q	...
a	-1	-1	-1	2	1	2	1	0	-1	-1	-1	-1	
x	-1	-2	-2	1	4	3	2	1	0	-1	-2	-2	
b	-1	-2	-3	0	3	2	5	4	3	2	1	0	
a	-1	-2	-3	-1	2	1	4	3	2	1	0	-1	
c	-1	-2	-3	-2	1	0	3	6	5	4	3	2	
s	-1	-2	-3	-3	0	-1	2	5	<u>8</u>	7	6	5	

Figure 19

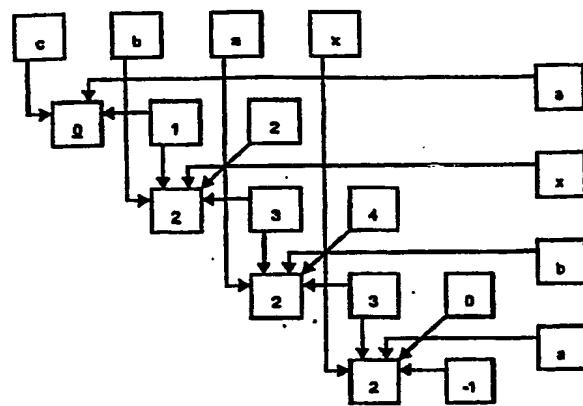


Figure 20

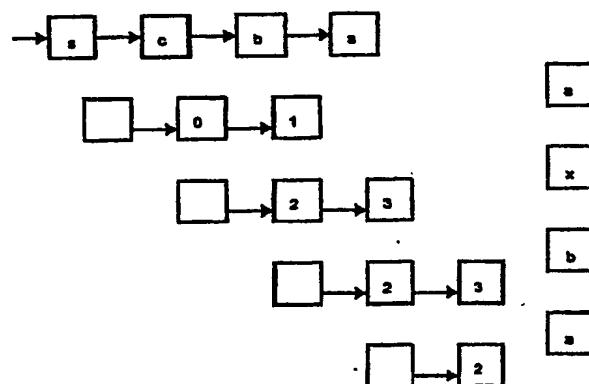


Figure 21

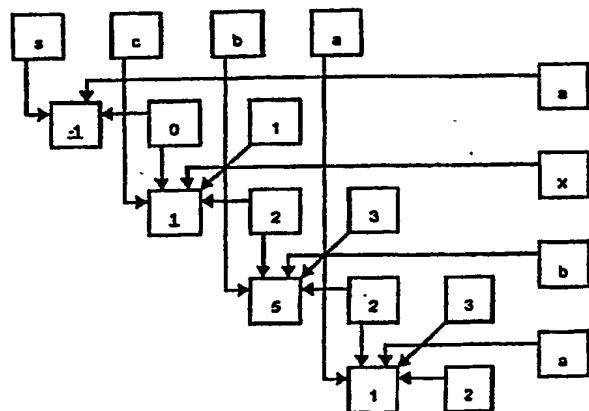


Figure 22

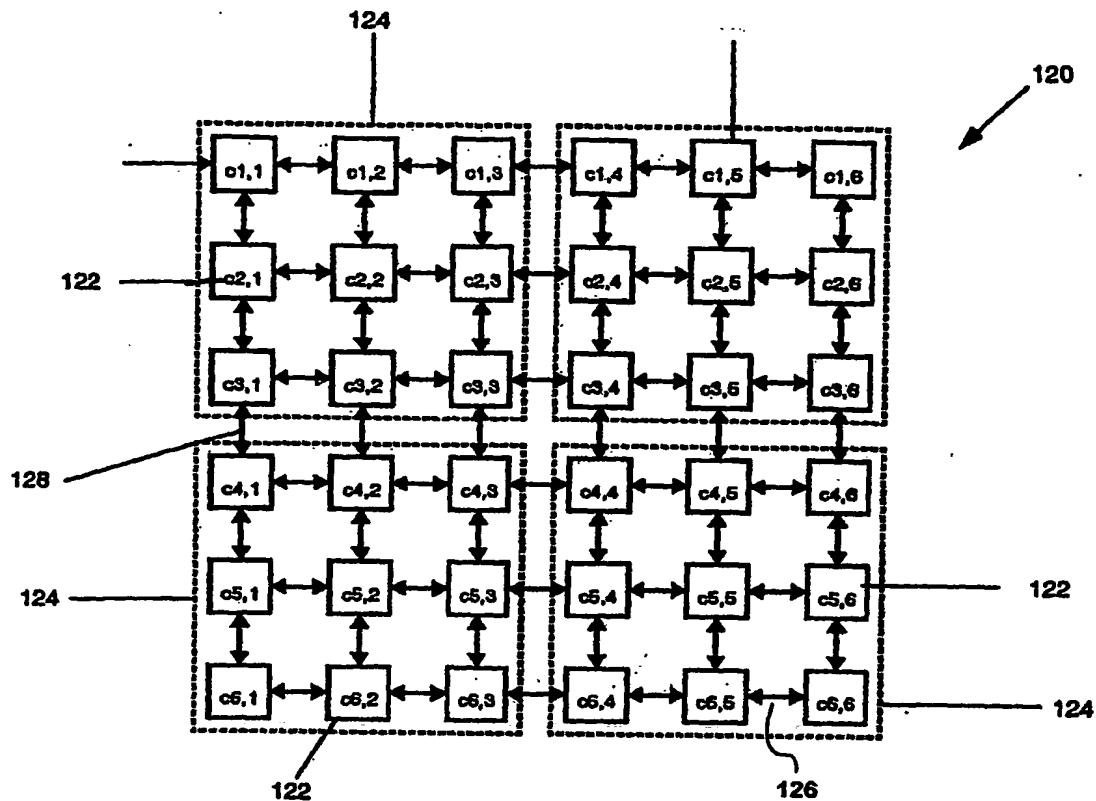


Figure 23

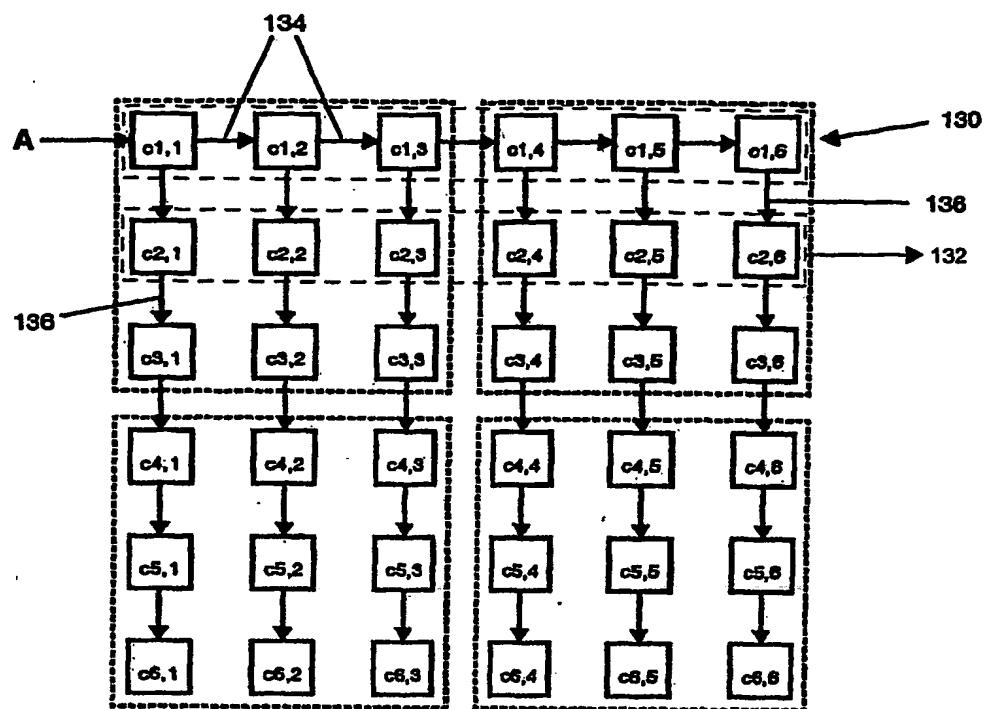


Figure 24

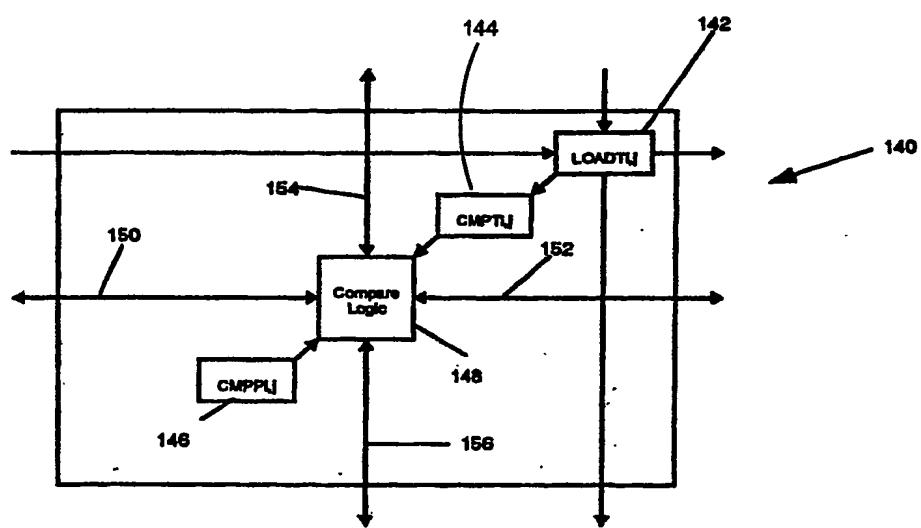


Figure 25

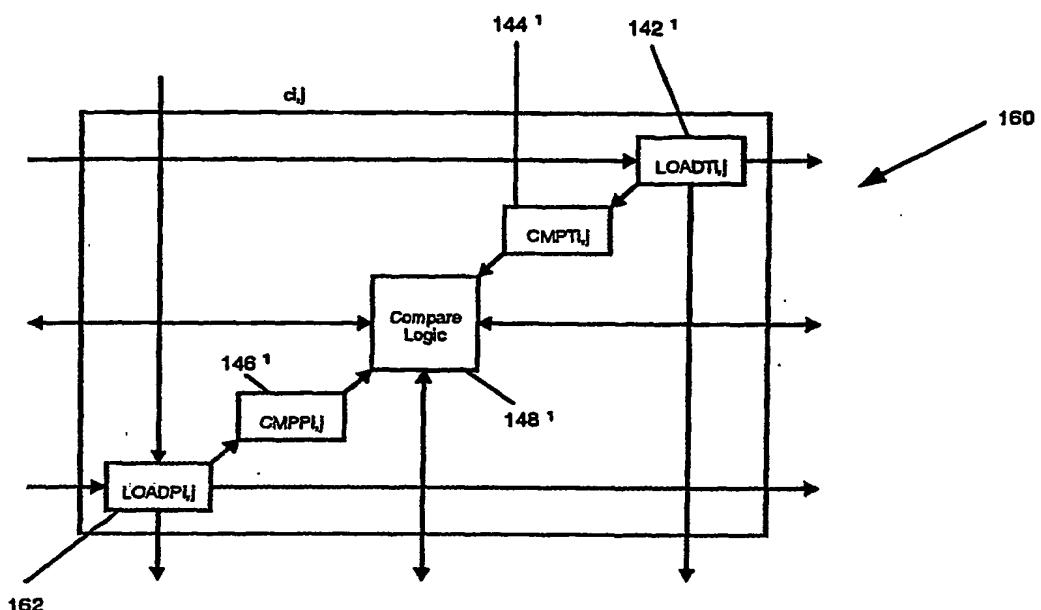


Figure 26

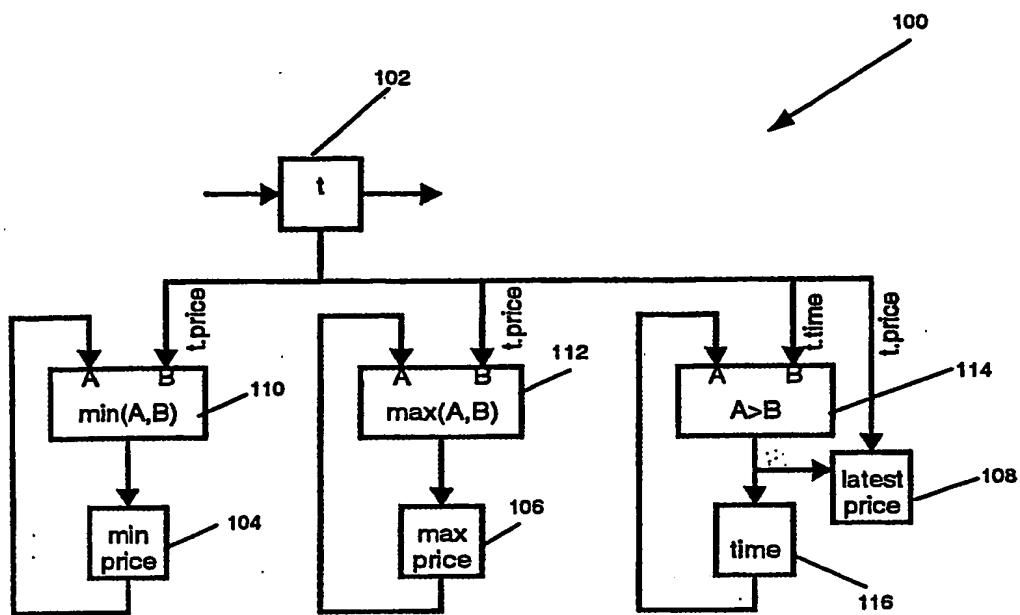


Figure 27

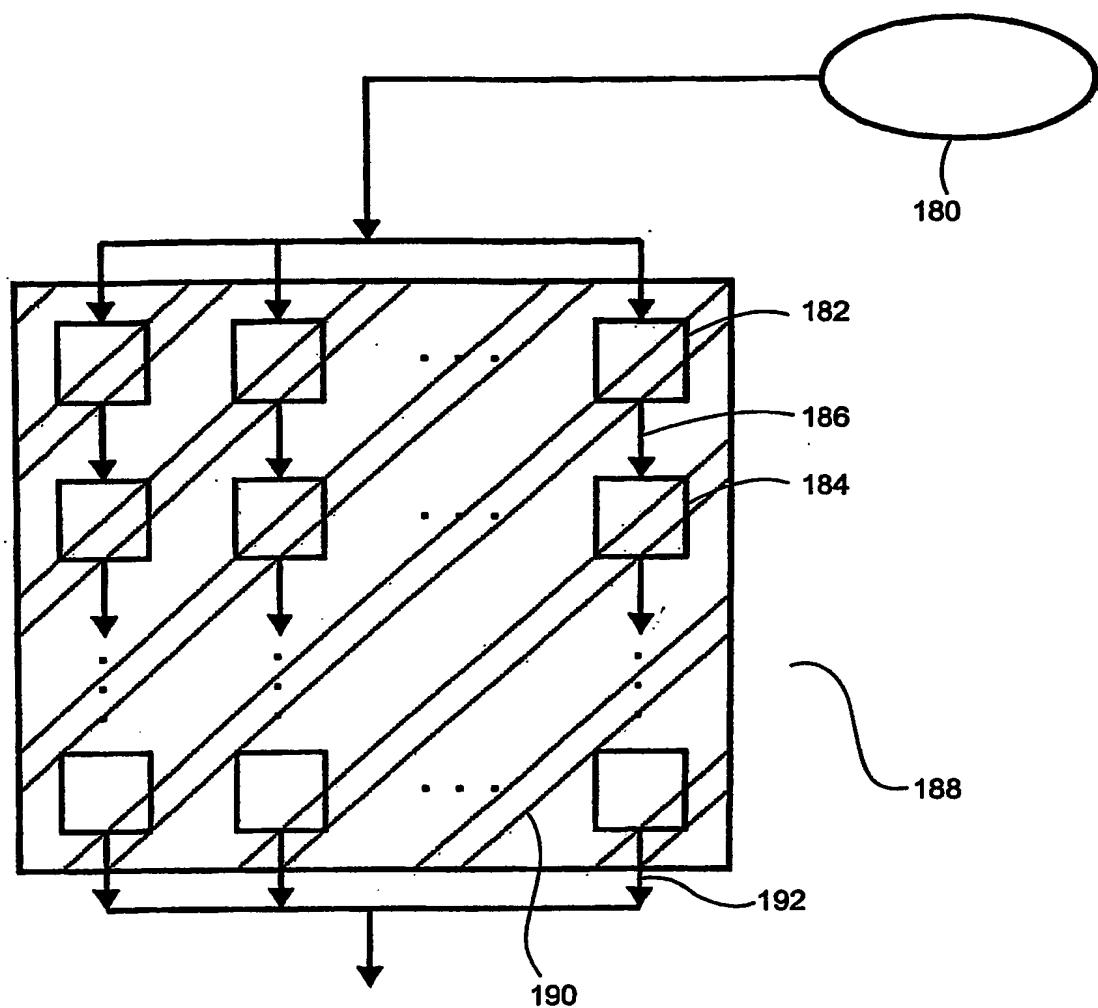


Fig. 28

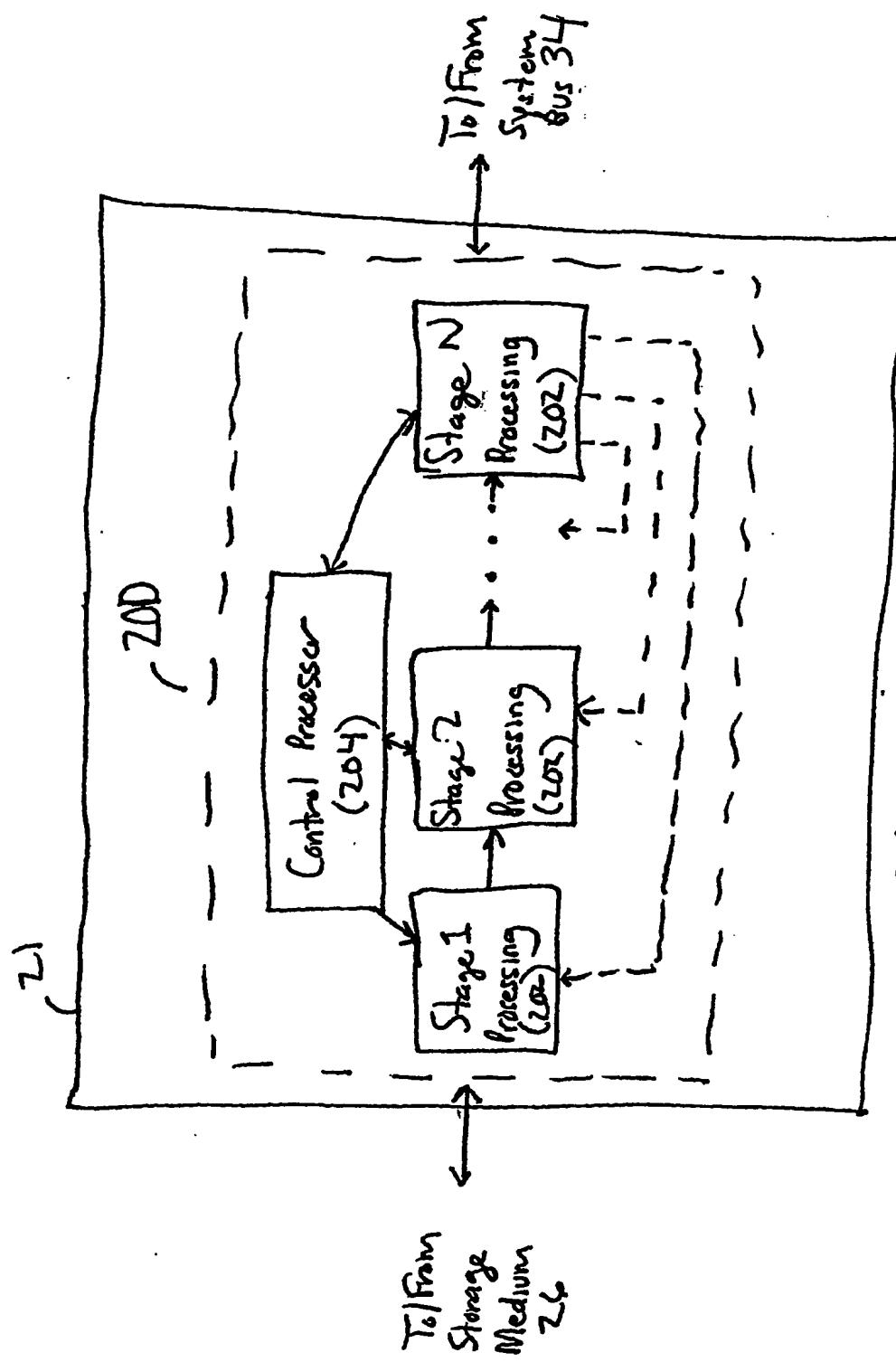


Figure 29

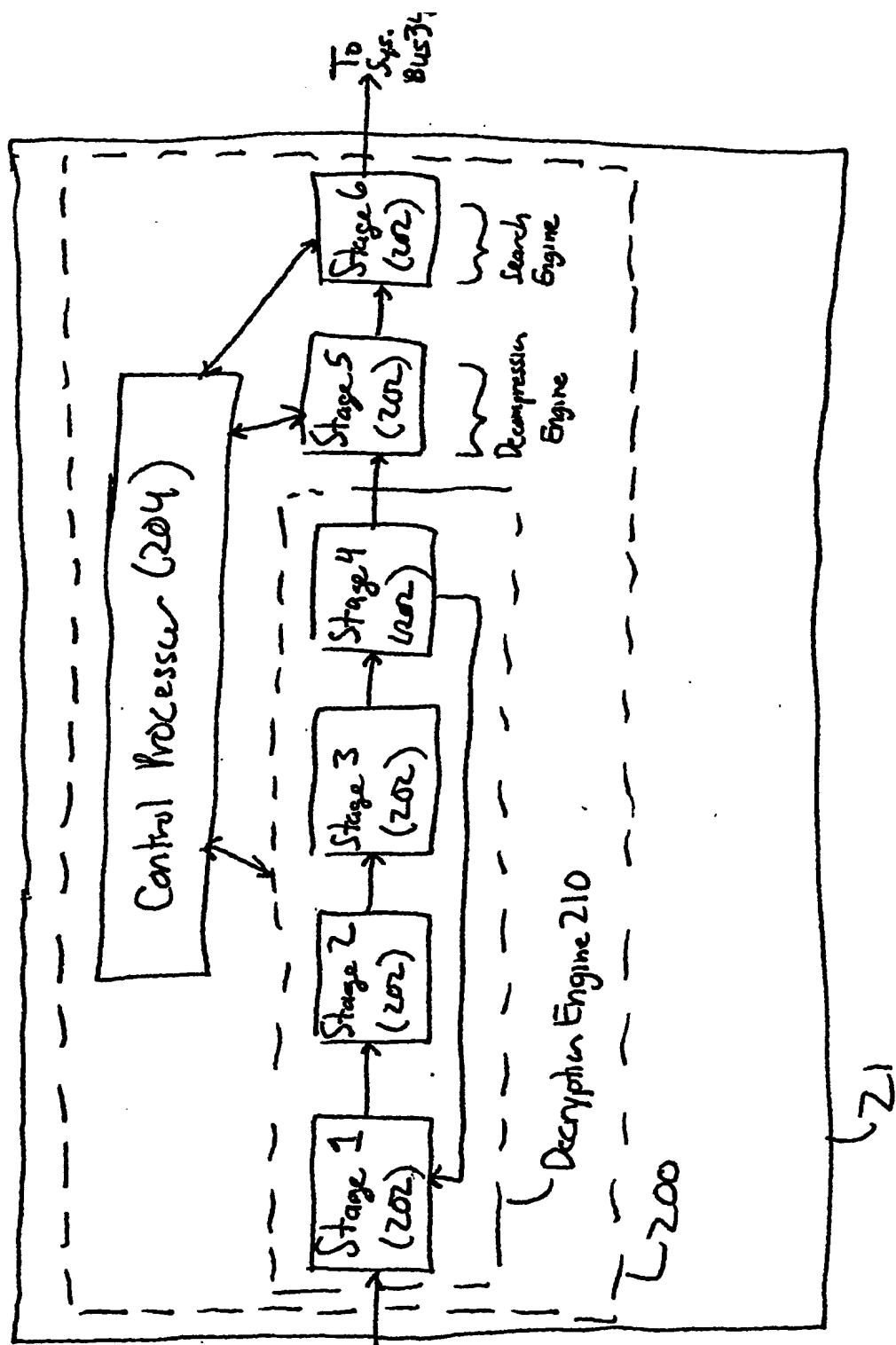


Figure 30

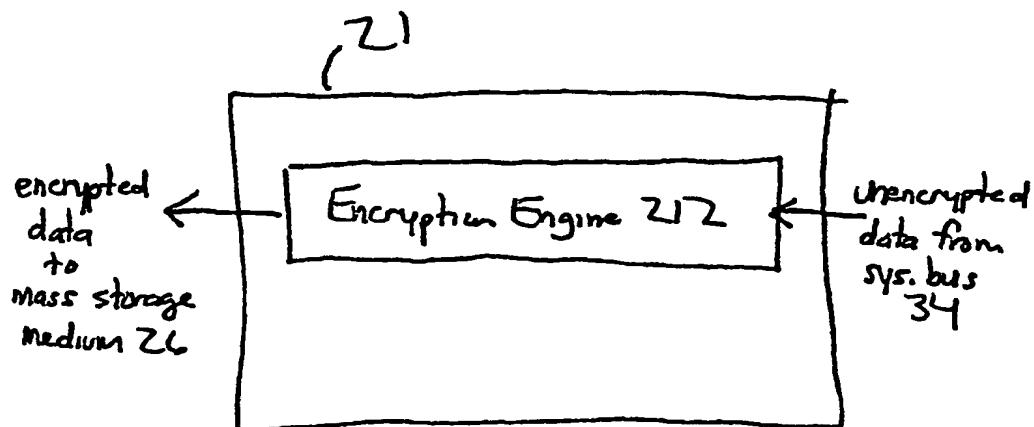


Figure 31

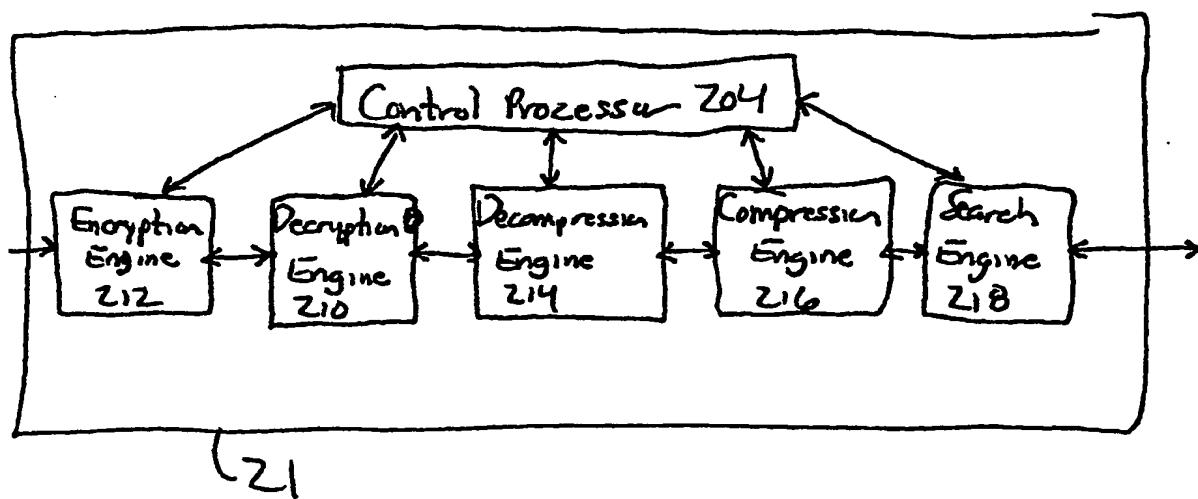
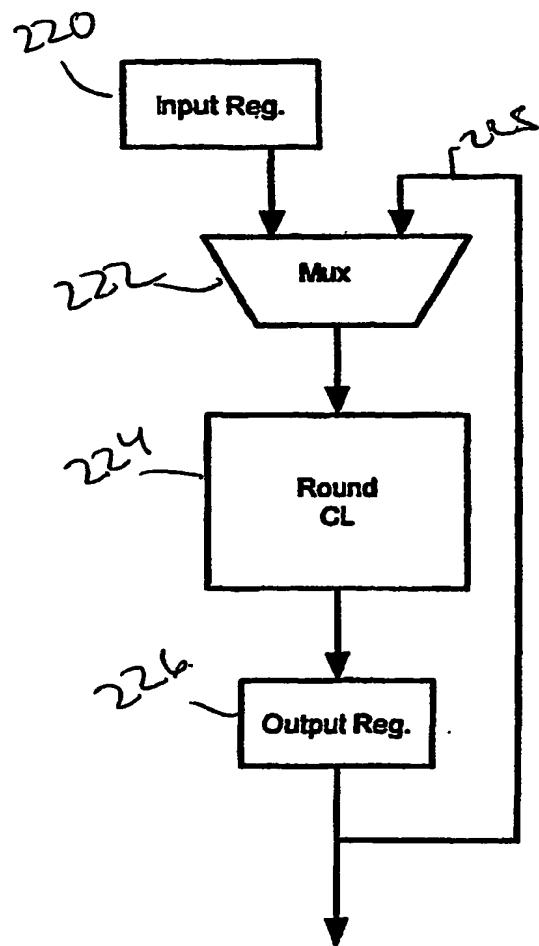


Figure 32



Single stage encryption/decryption engine.

Figure 33

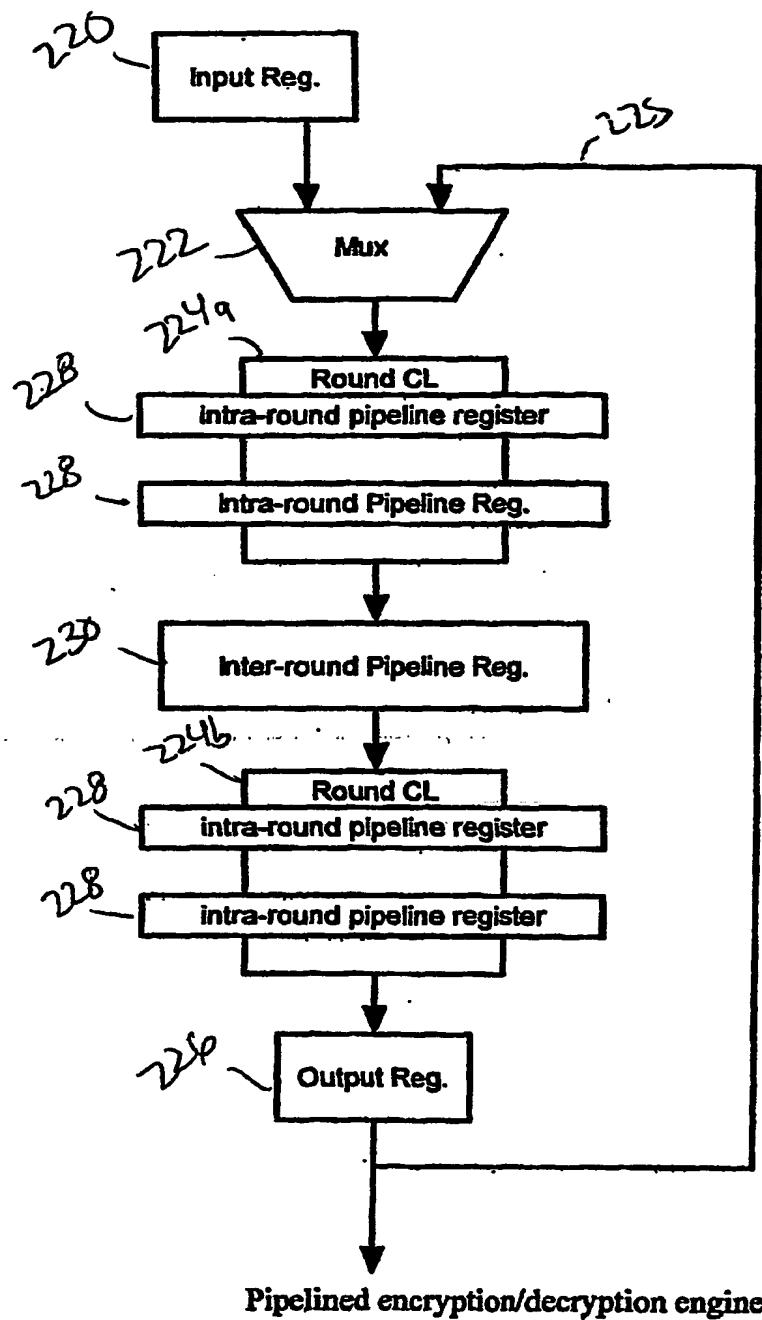


Figure 34

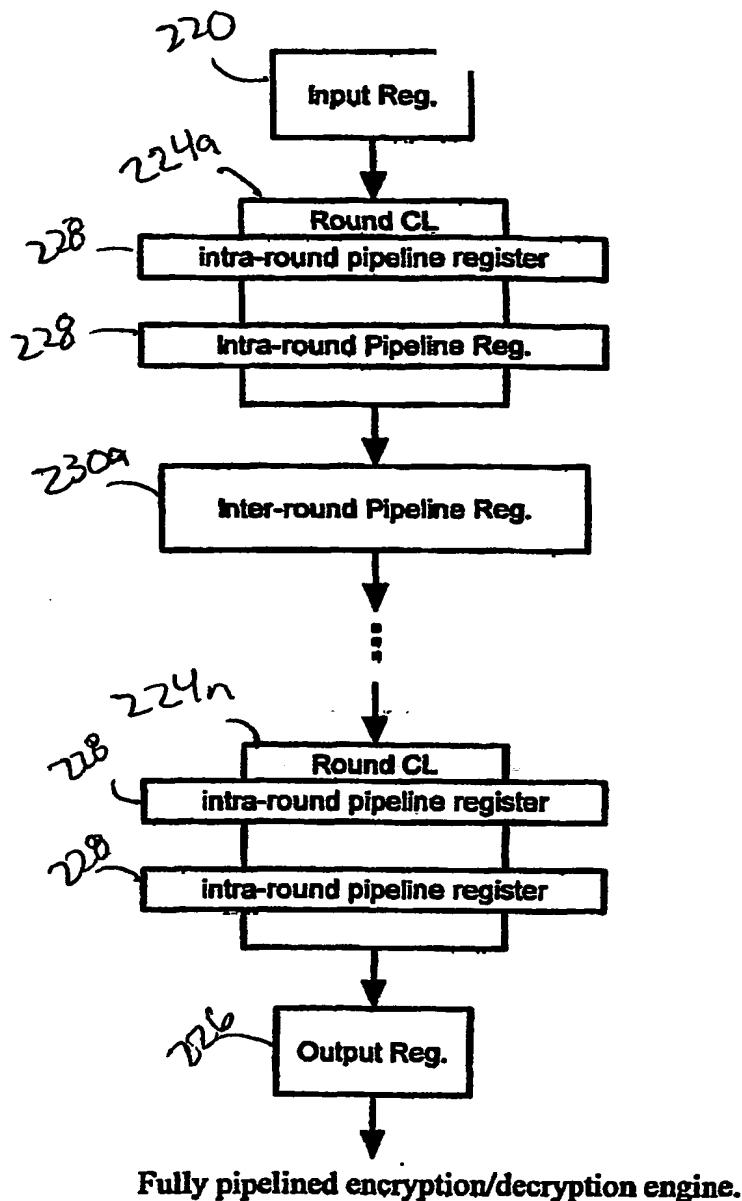


Figure 35

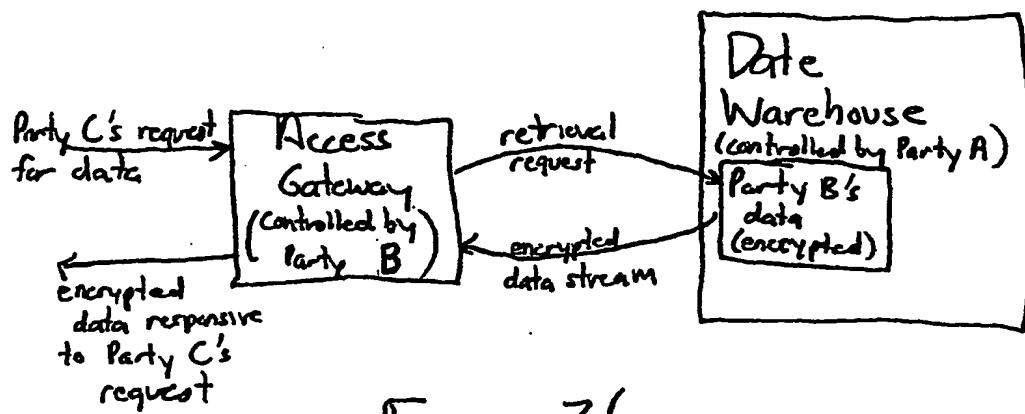
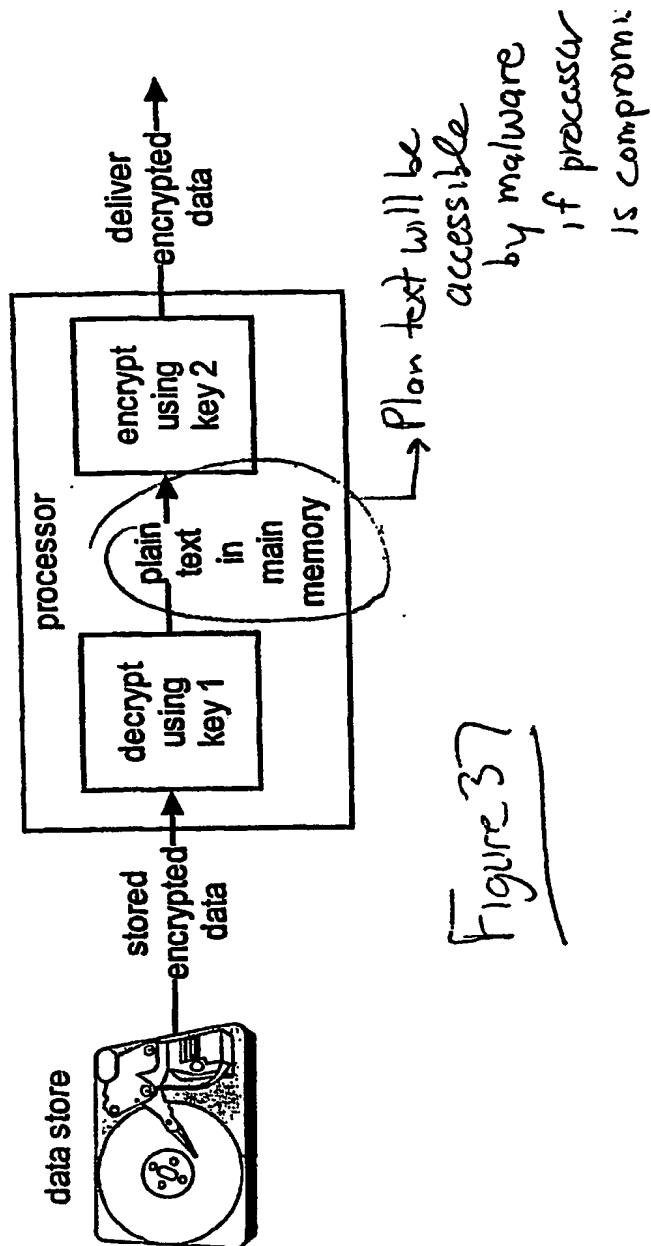
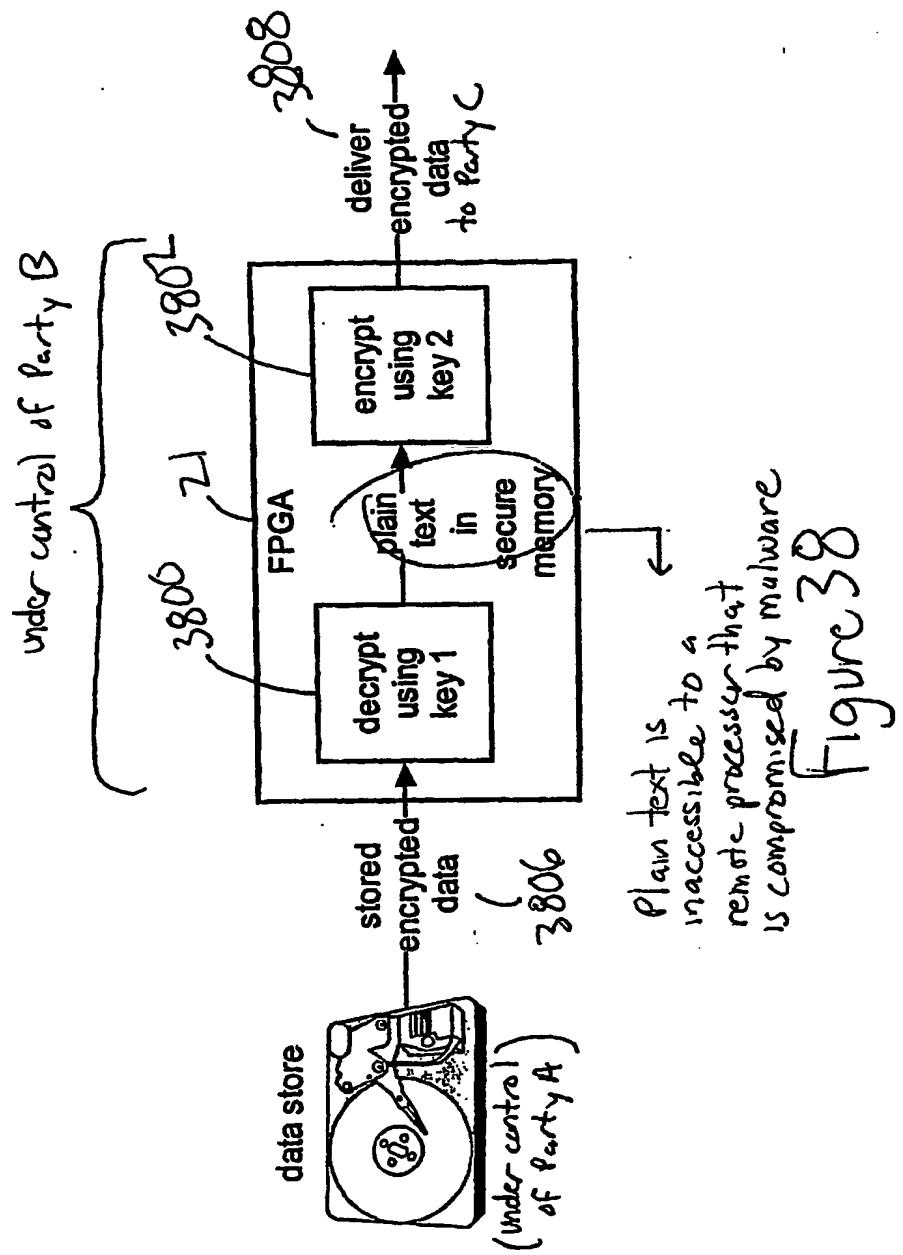
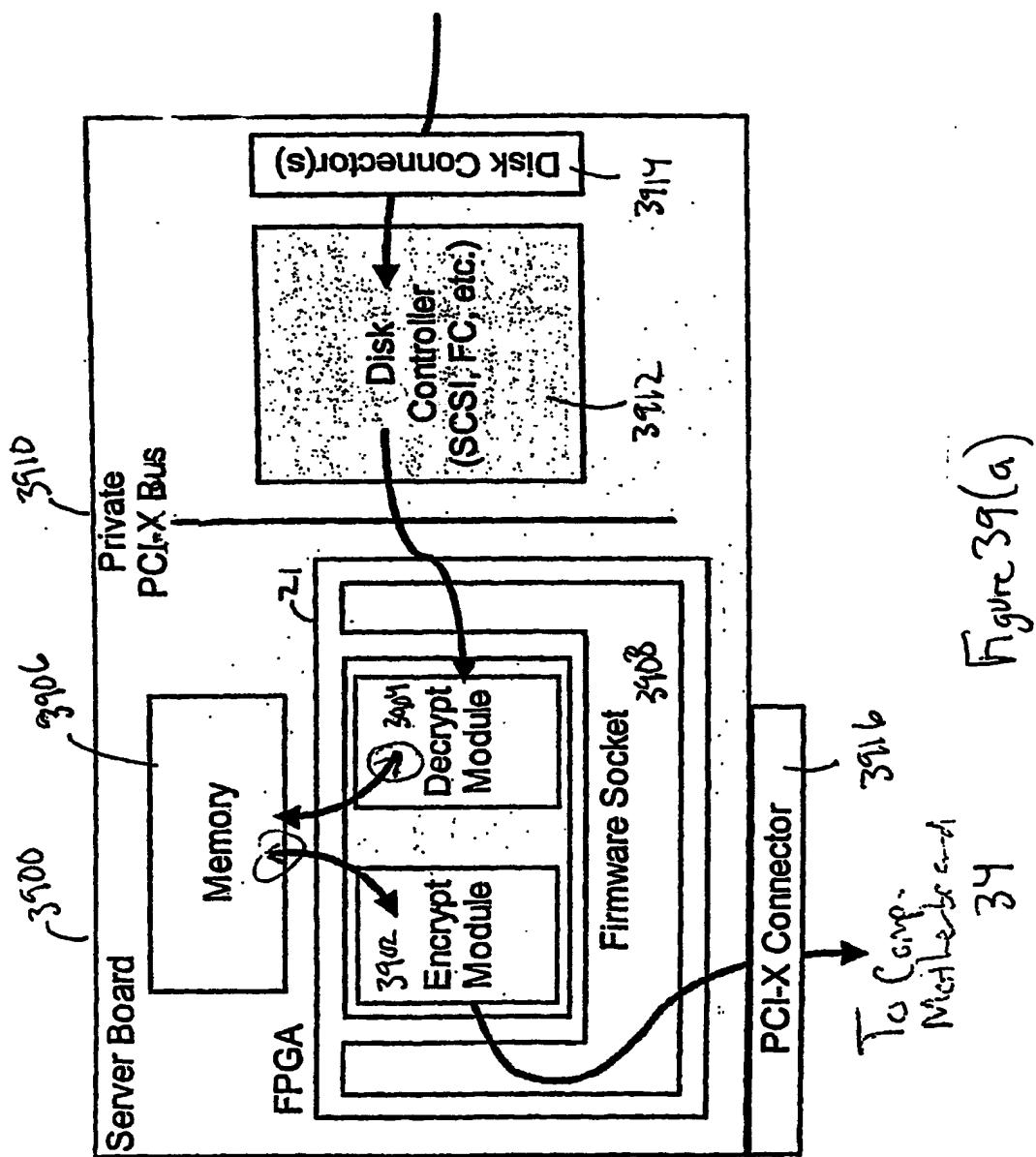
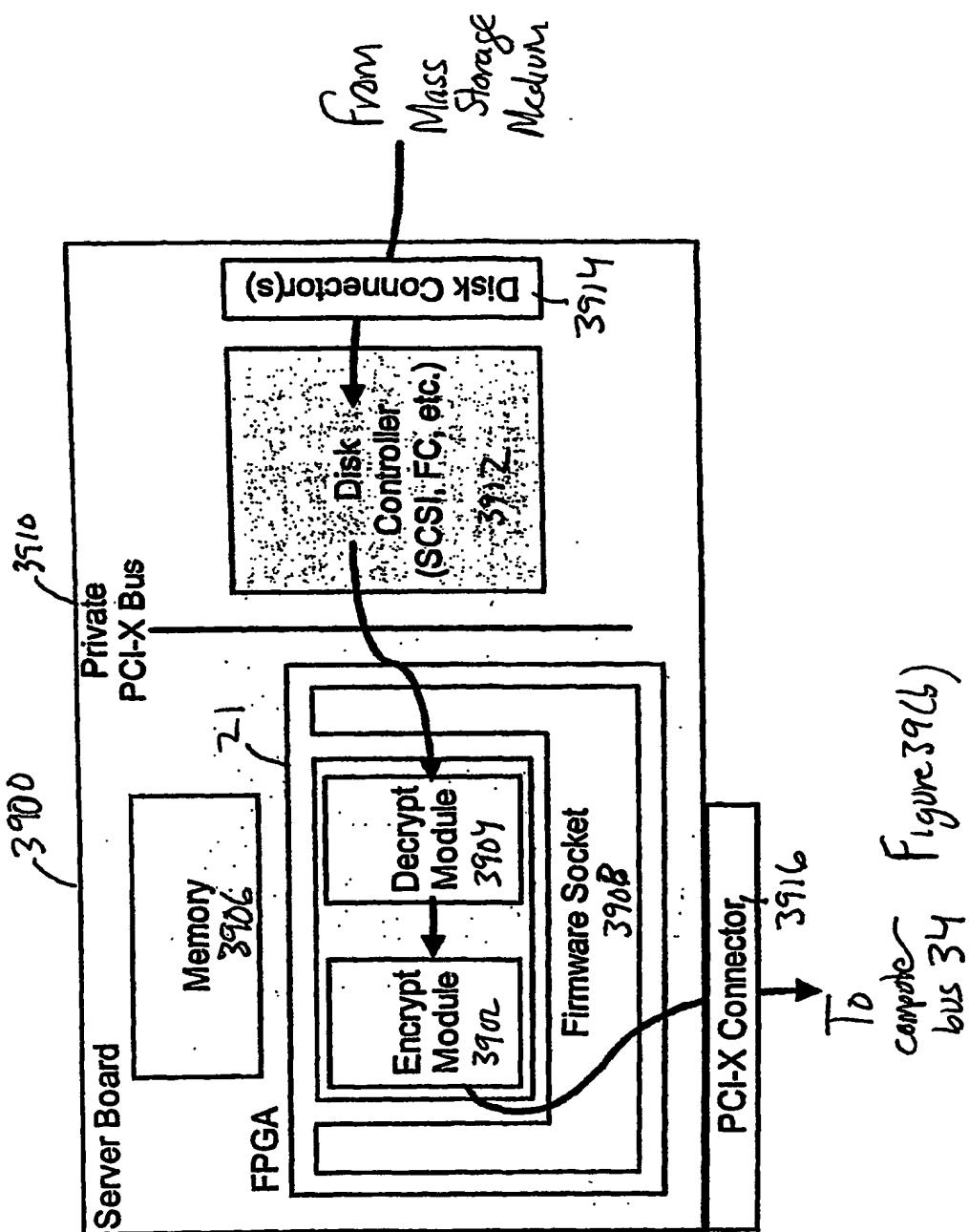


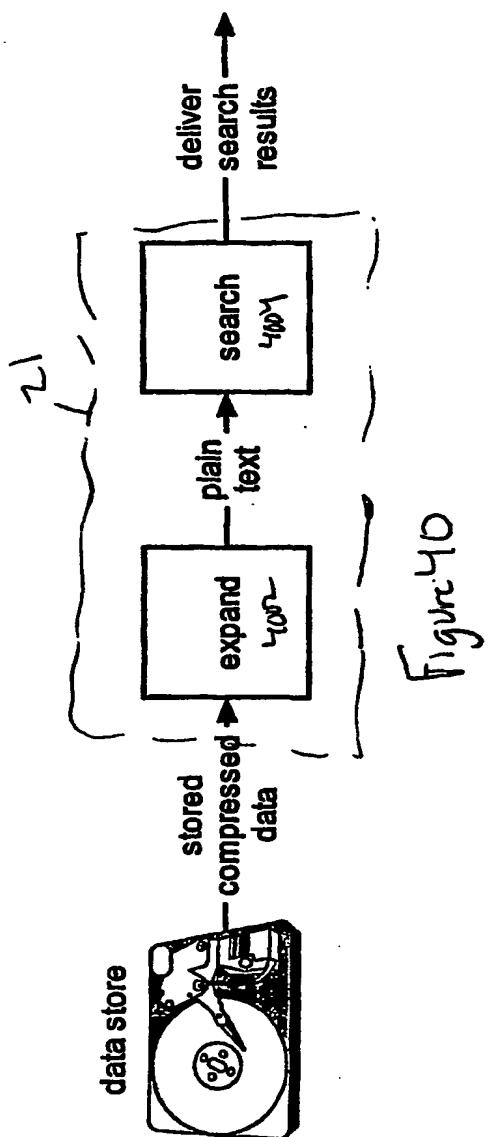
Figure 36

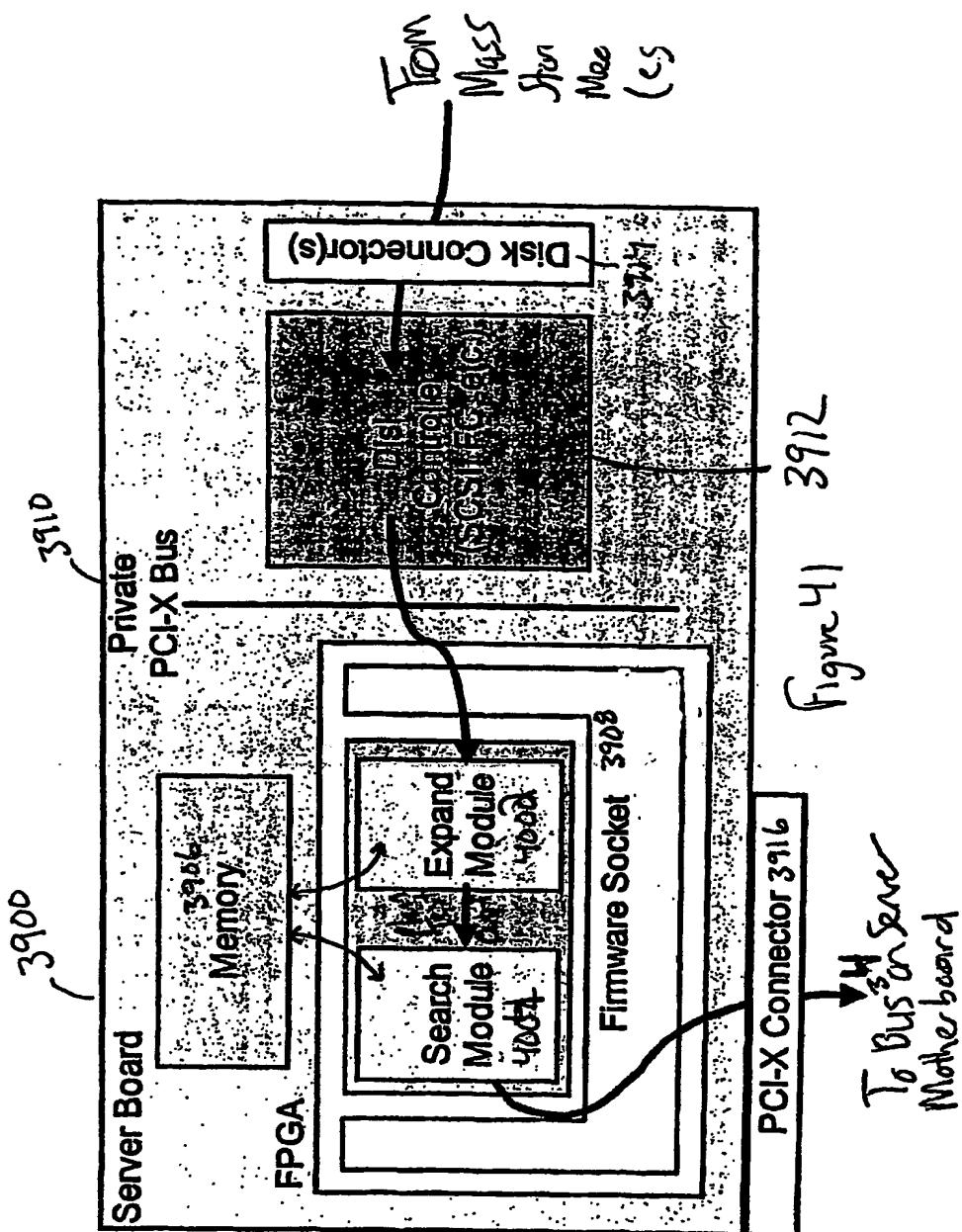


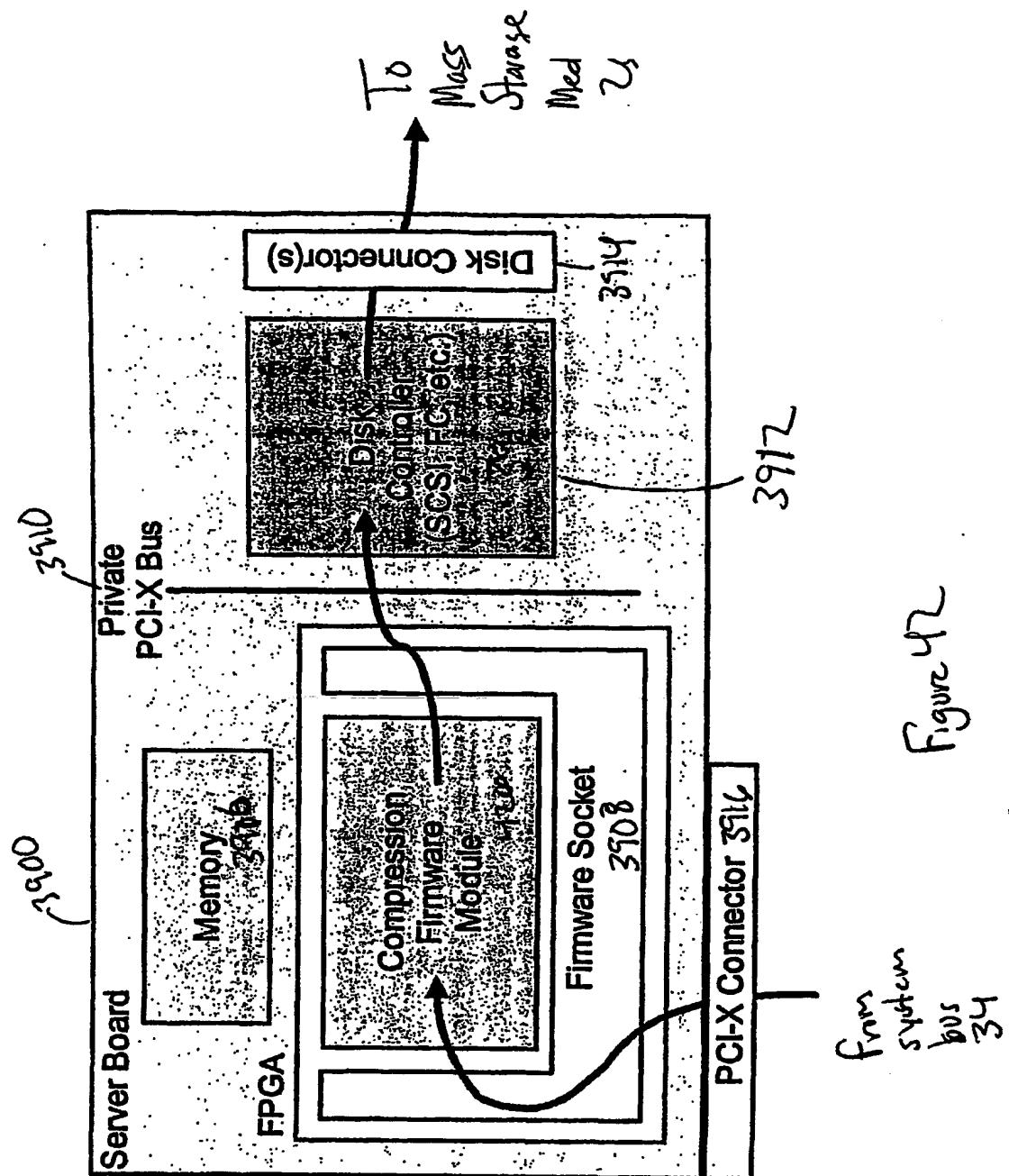


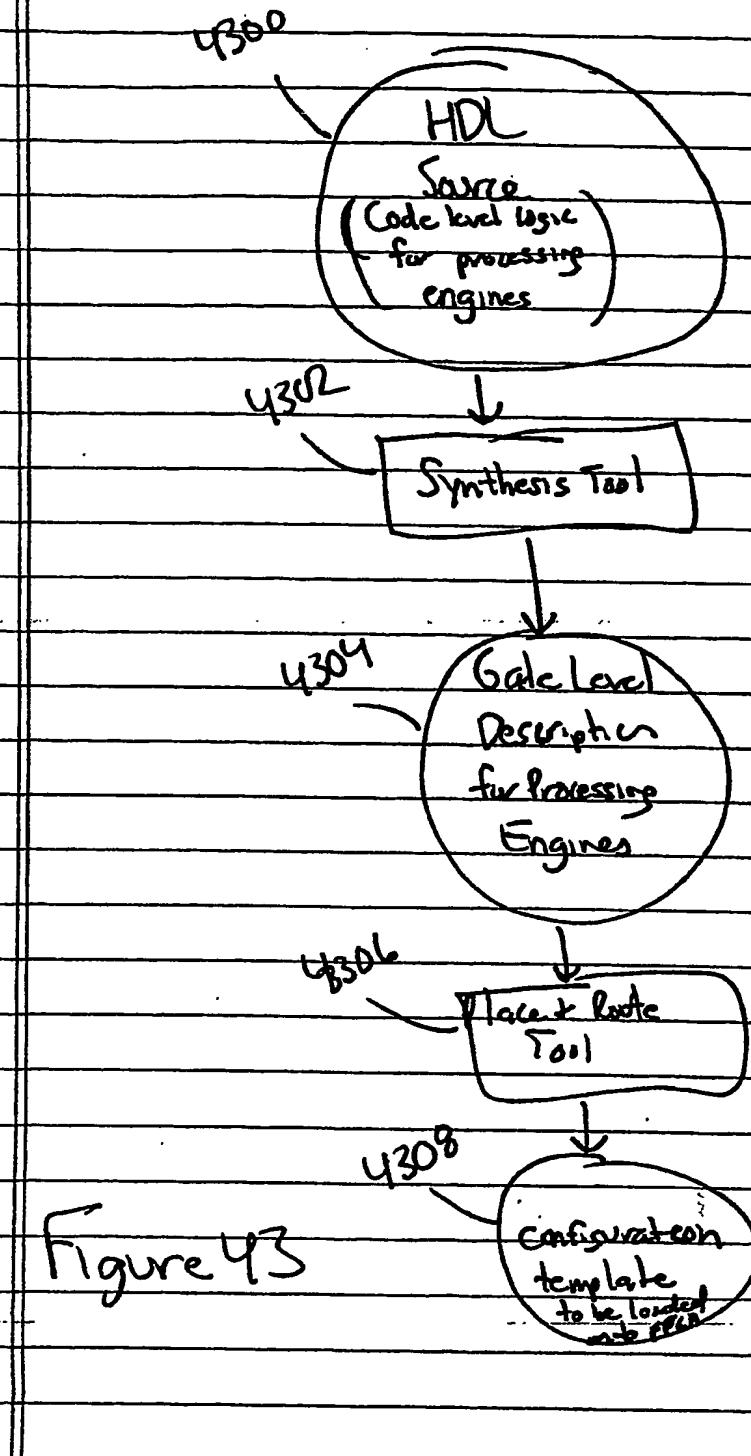












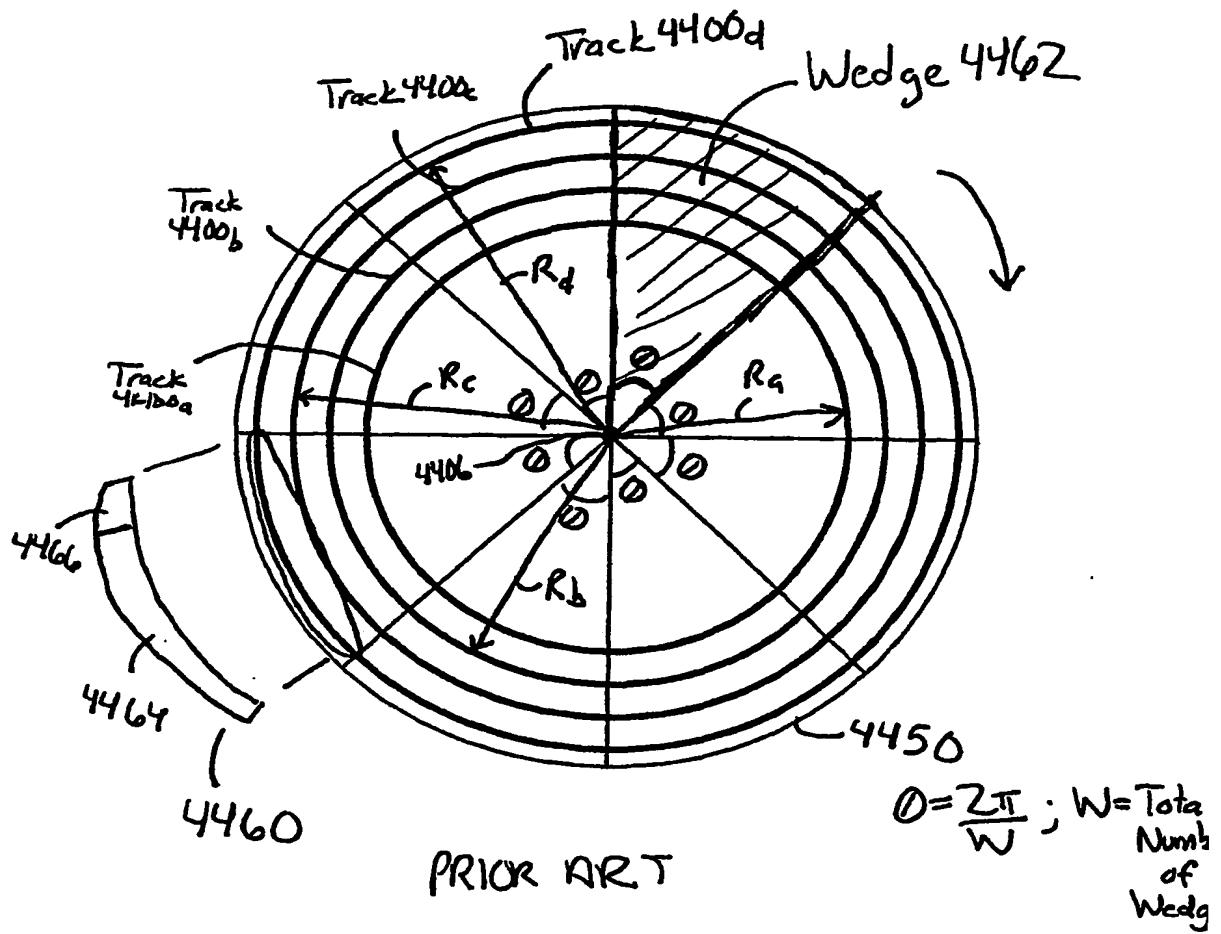


Figure 44(a)

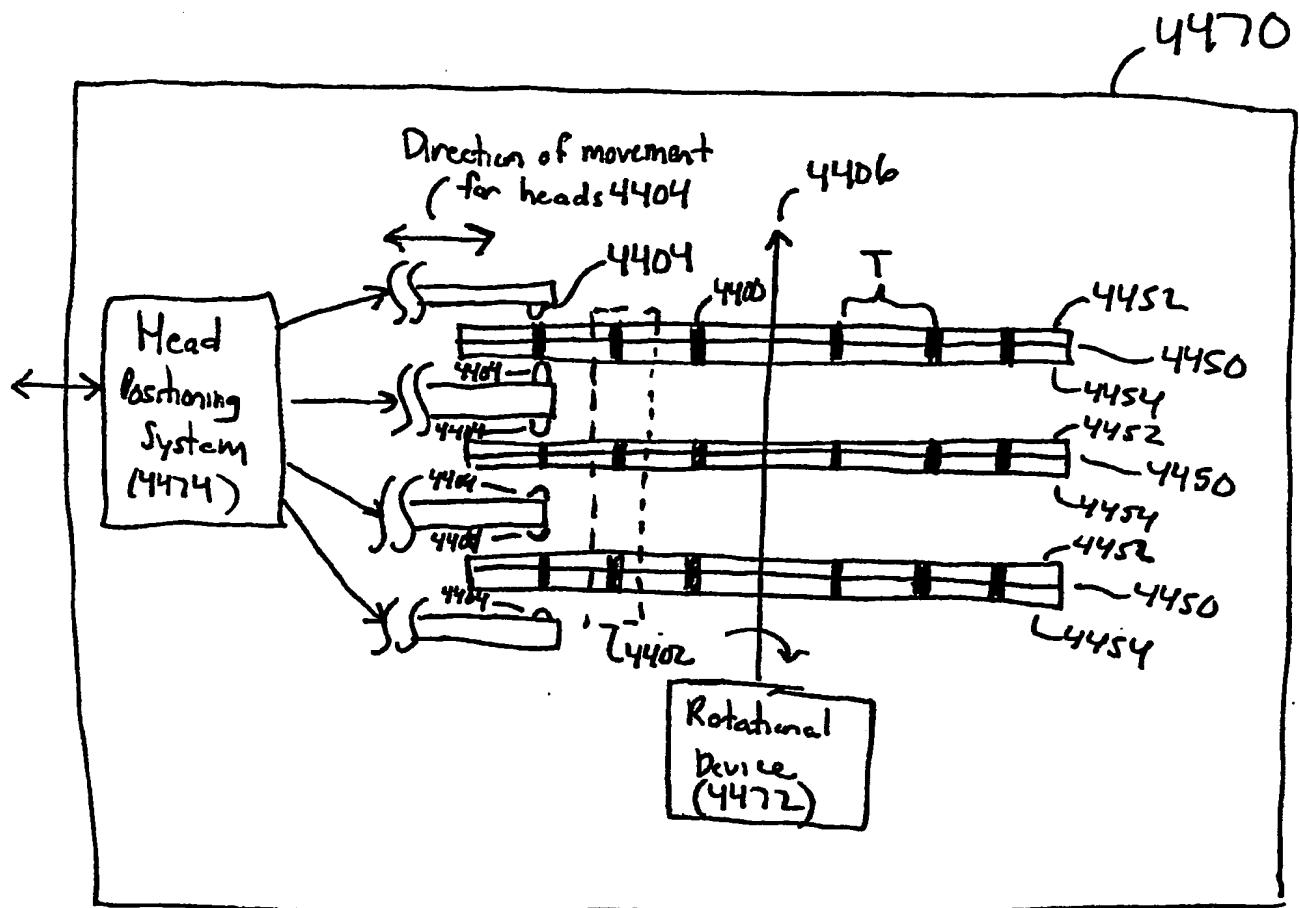


Figure 44(b)

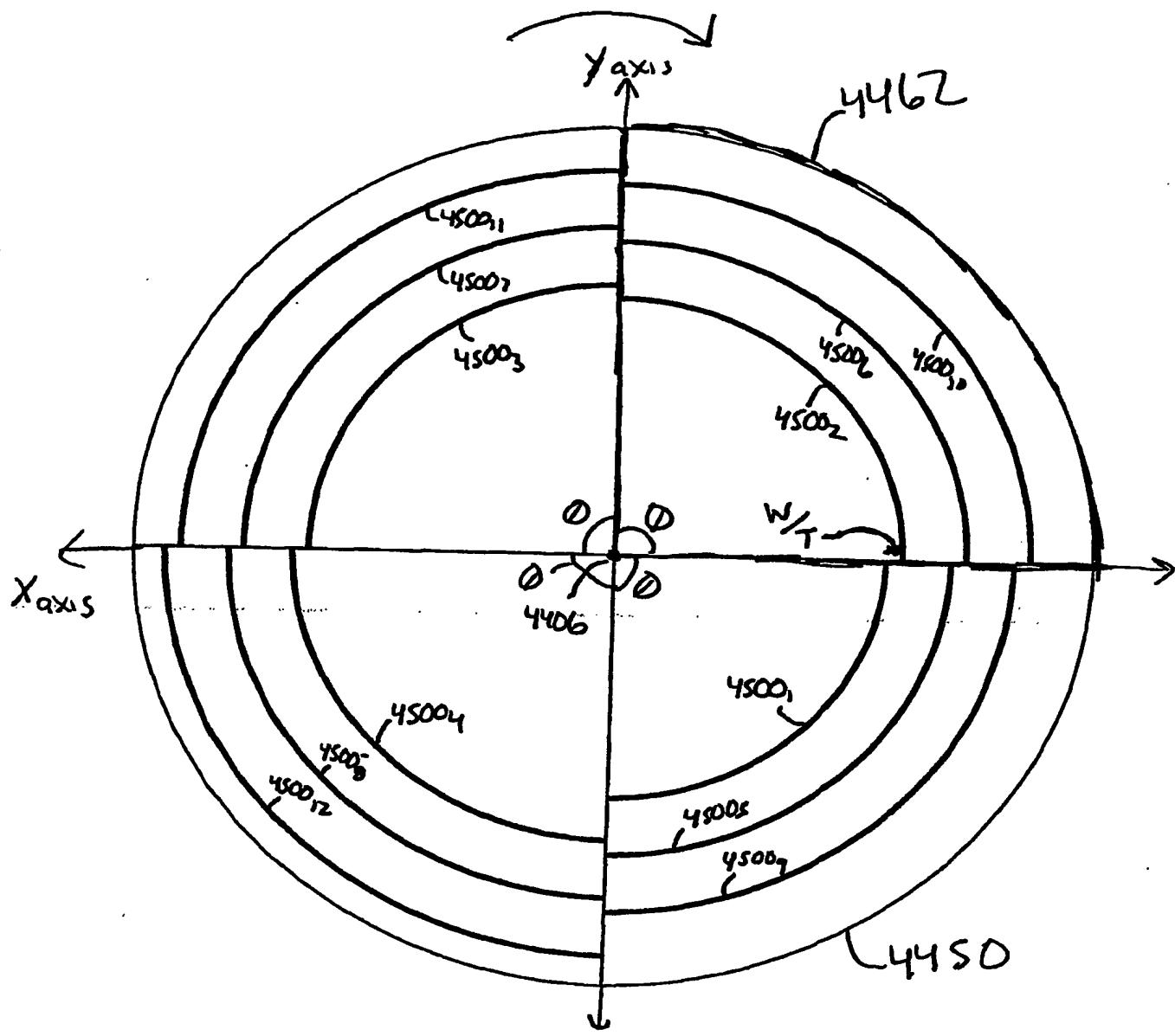


Figure 45

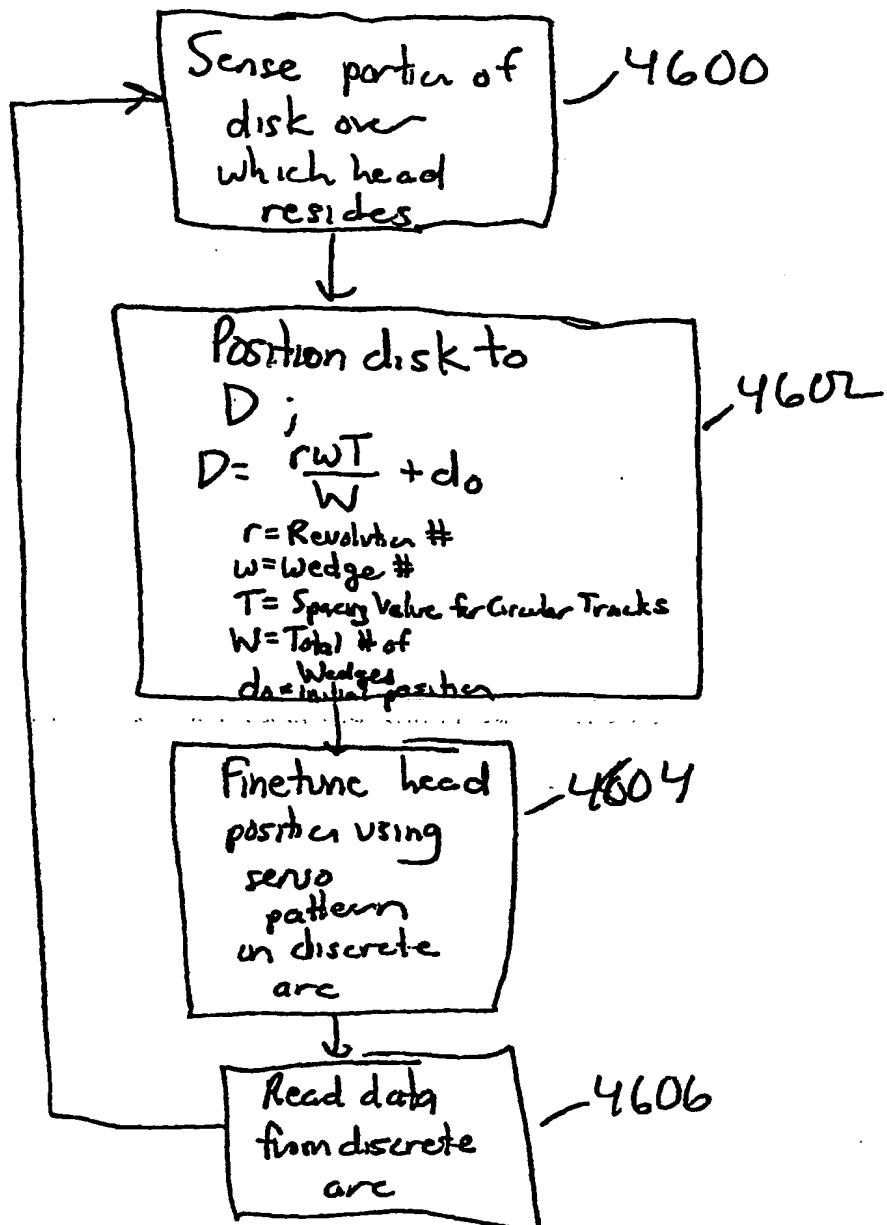


Figure 46

$K$	...	13	12	11	10	9	8	7	6	5	4	3	2	1
$2^k$	...	4096	2048	1024	512	256	128	64	32	16	8	4	2	1
$0$	...	0	1	0	0	1	1	1	0	0	0	1	0	0
No	...	No	Yes	No	No	Yes	Yes	No	No	Yes	No	No	No	No

The segment sizes for a file size of 2500 bytes will be 2048 bytes, 256 bytes, 128 bytes, 64 bytes, and 4 bytes

Minimum Segment Size is  $2^m$ , wherein m is 10

Should a segment size of  $2^l$  be requested?

Binary representation of file size F = 2500 bytes

Figure 47(a)

$K$	...	13	12	11	10	9	8	7	6	5	4	3	2	1
$2^k$	...	4096	2048	1024	512	256	128	64	32	16	8	4	2	1
$0$	...	0	1	0	0	1	1	1	0	0	0	1	0	0
$0$	...	0	1	0	1	0	0	0	0	0	0	0	0	0
No	...	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No

Should a segment size of  $2^l$  be requested?

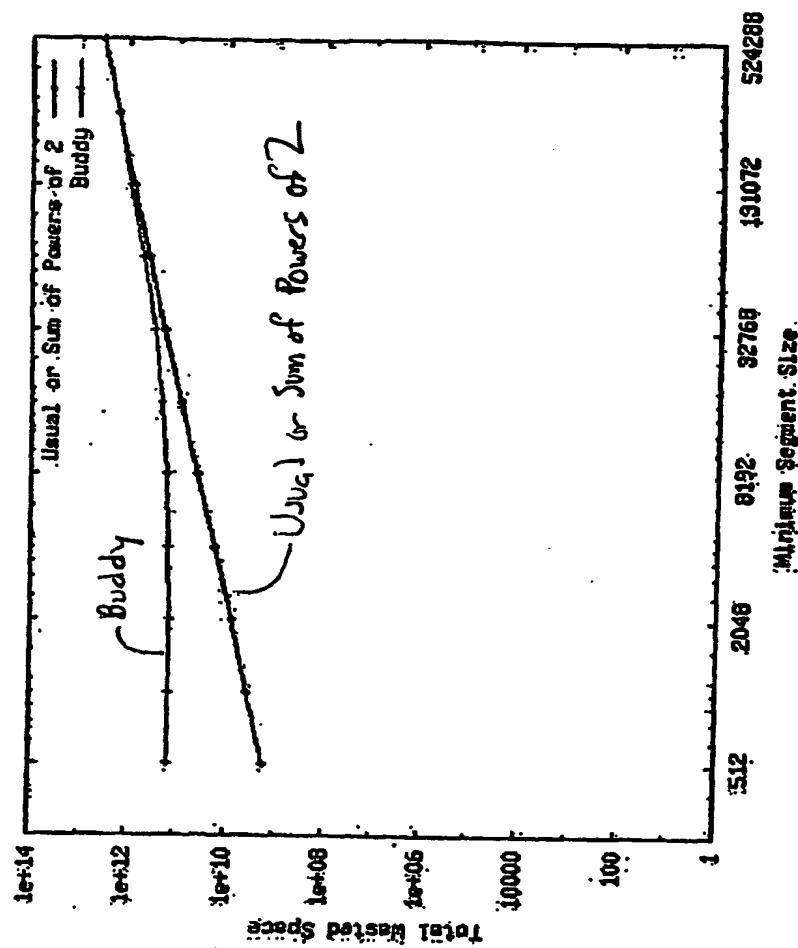
Binary representation of file size F = 2500 bytes

R\*\*

\*\* Because there is at least one bit  $F_i$  in F equal to one, wherein i is less than m, R is selected as a minimum value greater than F for which each bit  $N_{m-1}$  through  $N_1$  is equal to zero.

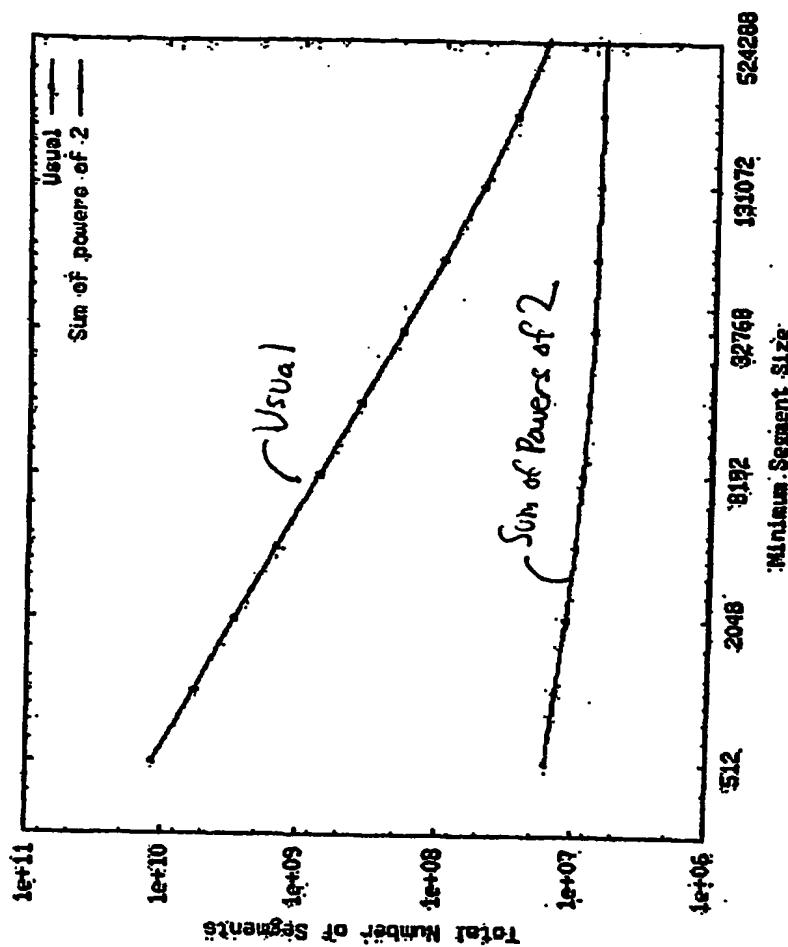
The segment sizes for a file size of 2500 bytes will be 2048 bytes and 512 bytes if the minimum segment size is 512 bytes

Figure 47(b)



Wasted storage due to internal fragmentation.

Figure 48



### Total number of segments in the file system.

Figure 49

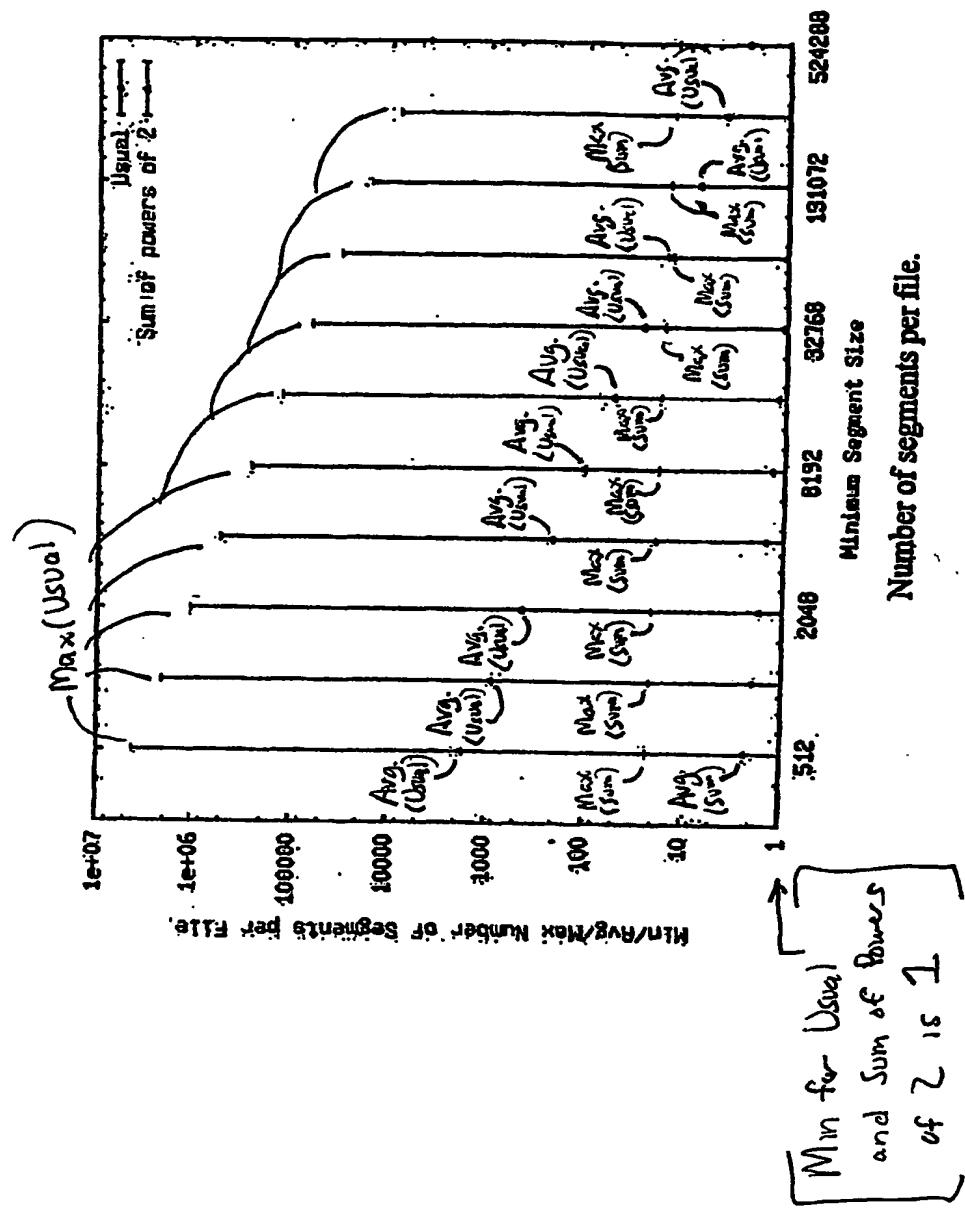


Figure 50

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